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Tri-Party Agreement Milestone Summary August 1993

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September 1993

Prepared for the U.S. Department of Energy



**Westinghouse
Hanford Company**

P.O. Box 1970
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Hanford Operations and Engineering Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930



Approved for Public Release

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PREFACE

The *Tri-Party Agreement Milestone Summary Report* is issued monthly by the U.S. Department of Energy, Richland Field Office (RL). The report provides a summary progress and financial status for each active *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) major milestone and its related interim milestones that are active in the current 12-month period. Of the 269 planned interim milestones due by July 31, 1993, 262 were completed. Two other milestones have been completed early.

The following Tri-Party Agreement major milestones have been completed and are not included in this report:

		<u>Completed</u>
M-12-00	Submit remedial investigation/feasibility study (RI/FS) or <i>Resource Conservation and Recovery Act</i> (RCRA) facility investigation/corrective measures study (RFI/CMS) work plan for 15 operable units.	6/30/92
M-21-00	Submit RCRA interim status compliance assessments for all treatment, storage, and disposal units.	4/30/89
M-22-00	Establish enforceable compliance action schedules.	12/29/89
M-23-00	Complete interim status corrective actions.	9/30/91
M-25-00	Provide annual reports of in-progress studies or efforts to identify alternatives to land disposal of radioactive mixed waste	Deleted*
	*M-25-00 was deleted 3/31/92 and requirements combined with revised Tri-Party Agreement milestone M-26-00.	
M-27-00	Submit all aggregate area management study reports (AAMSR) for the 200 areas.	9/29/92
M-28-00	Submit all soils and groundwater background determination documents to U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology).	4/30/92
M-29-00	Submit documentation to EPA and Ecology describing Hanford Site risk assessment methodology.	3/31/92

TRI-PARTY AGREEMENT BUDGET BASELINE SUMMARY AUGUST 1993

(\$ in Millions)

<u>MAJOR MILESTONE</u>	<u>FYTD BUDGET</u>	<u>FYTD COST</u>	<u>SPENDING VARIANCE</u>	<u>ANNUAL BUDGET</u>
M-00 *	17.2	11.5	3.8	19.9
M-01 *	34.6	34.9	(0.3)	39.0
M-02 *	18.8	17.7	1.1	23.7
M-03 *	108.0	98.9	9.1	126.9
M-04	0.1	0.1	0.0	0.1
M-05	8.4	8.3	0.1	9.8
M-06 *	2.8	2.5	0.3	3.0
M-07	4.0	4.8	(0.8)	5.0
M-08	2.1	1.8	0.3	2.4
M-09	6.1	5.5	0.6	6.4
M-10	21.3	21.6	(0.3)	23.2
M-11	12.7	10.8	1.9	13.9
M-12	0.5	0.4	0.1	0.5
M-13	0.9	0.8	0.1	1.1
M-14	8.9	11.1	(2.2)	10.6
M-15 *	72.5	66.4	6.1	91.2
M-16	9.9	10.0	(0.1)	9.7
M-17 *	50.8	49.1	1.7	59.8
M-18	7.5	7.5	0.0	7.9
M-19	5.2	5.3	(0.1)	5.9
M-20 *	9.9	6.7	3.2	12.3
M-24	2.8	3.0	(0.2)	3.4
M-26	0.1	0.1	0.0	0.1
M-30	1.8	1.7	0.1	2.0
M-31	10.7	9.6	1.1	12.3
	<u>417.6</u>	<u>392.0</u>	<u>25.6</u>	<u>490.1</u>

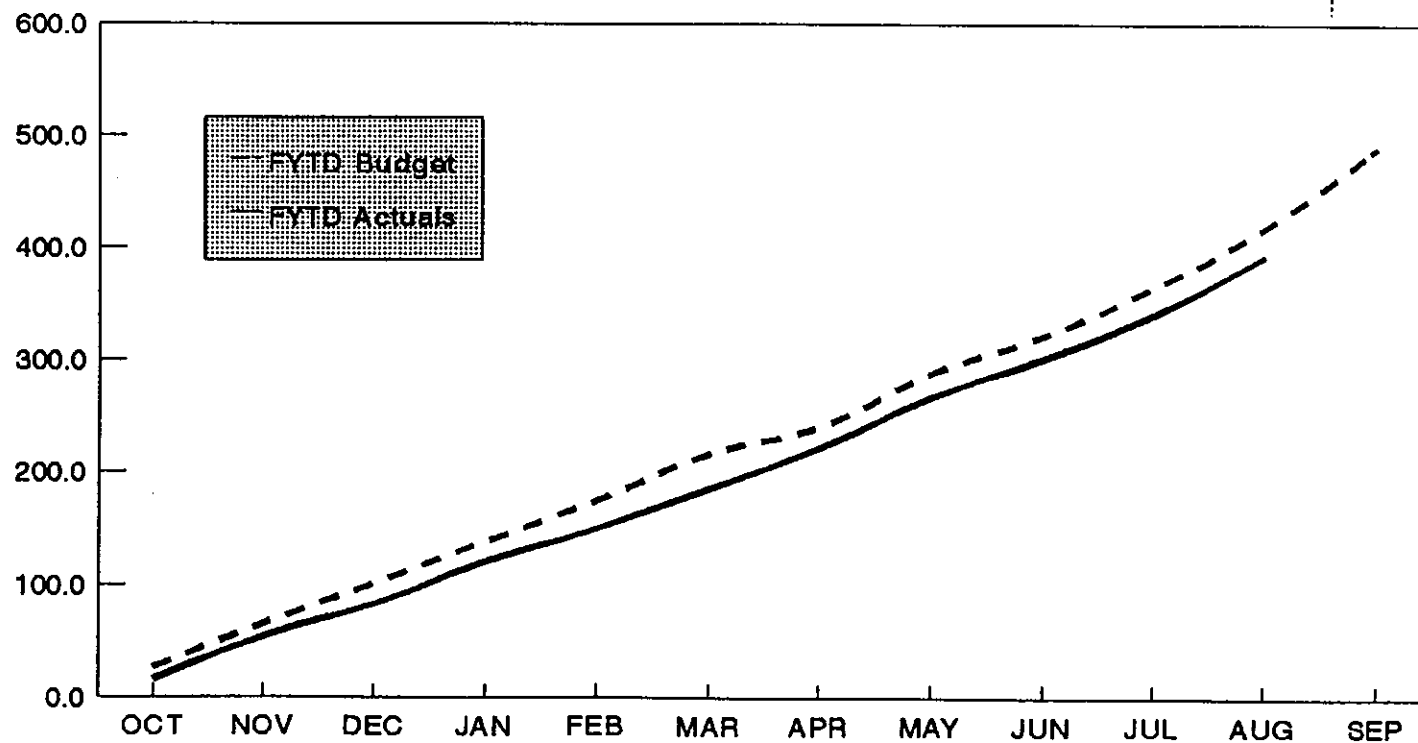
* These milestones include costs from other contractors.
All other milestones are WHC only. \$0.0=less than \$100K.

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TRI PARTY AGREEMENT ALL MILESTONES

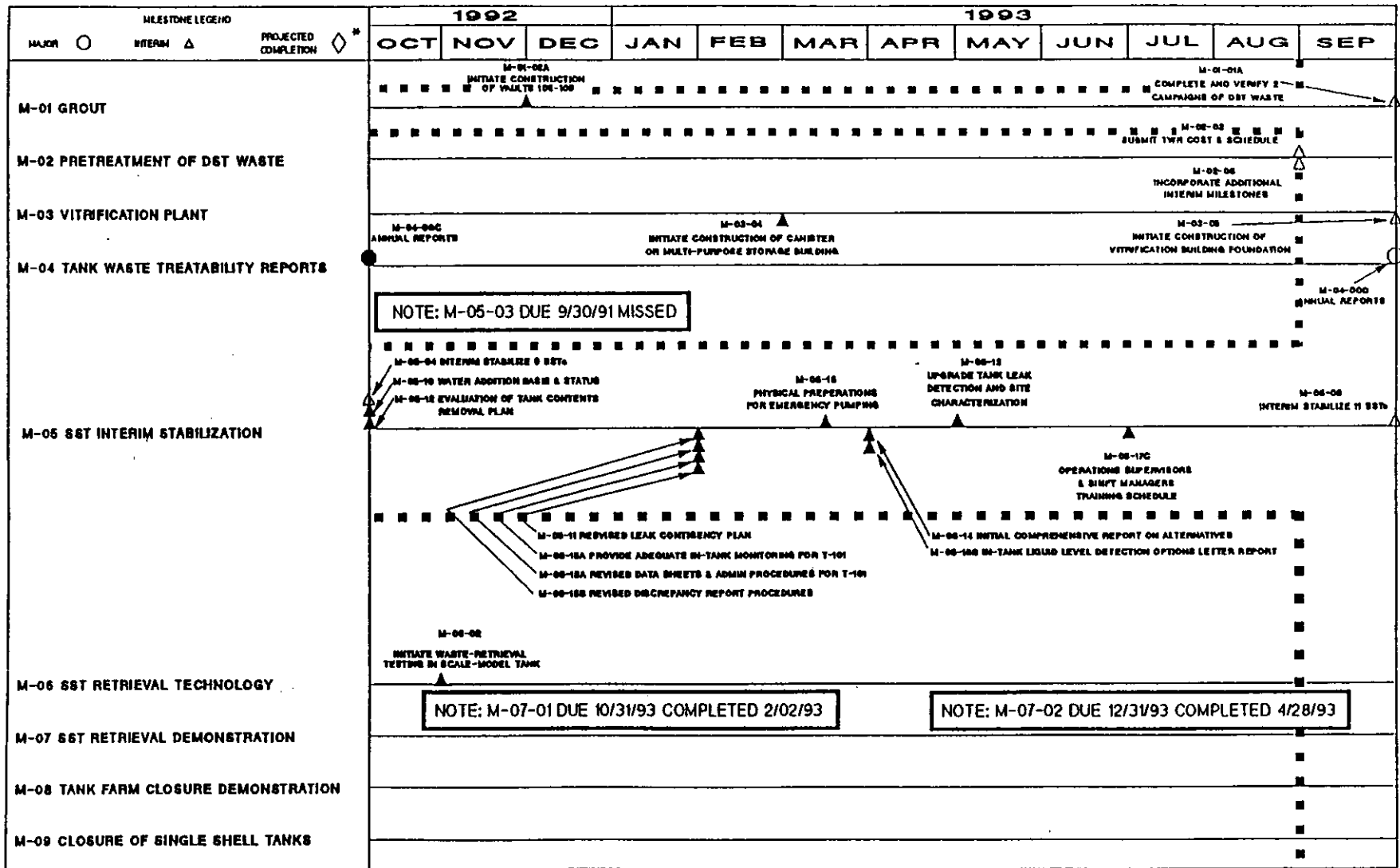
FY 1993

\$ Millions



TPA MILESTONES

PAGE 1 OF 4



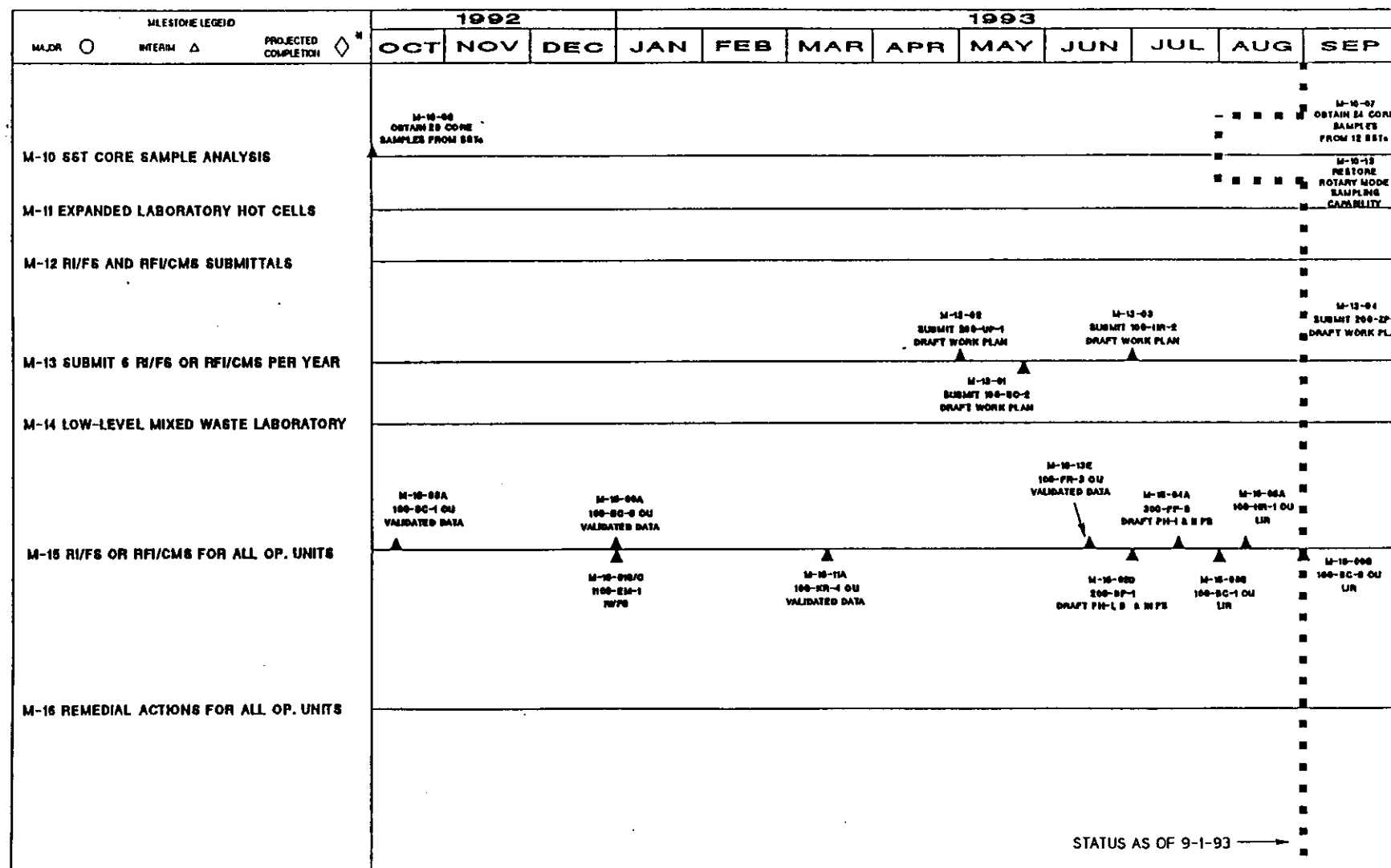
STATUS AS OF 9-1-93 →

* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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TPA MILESTONES

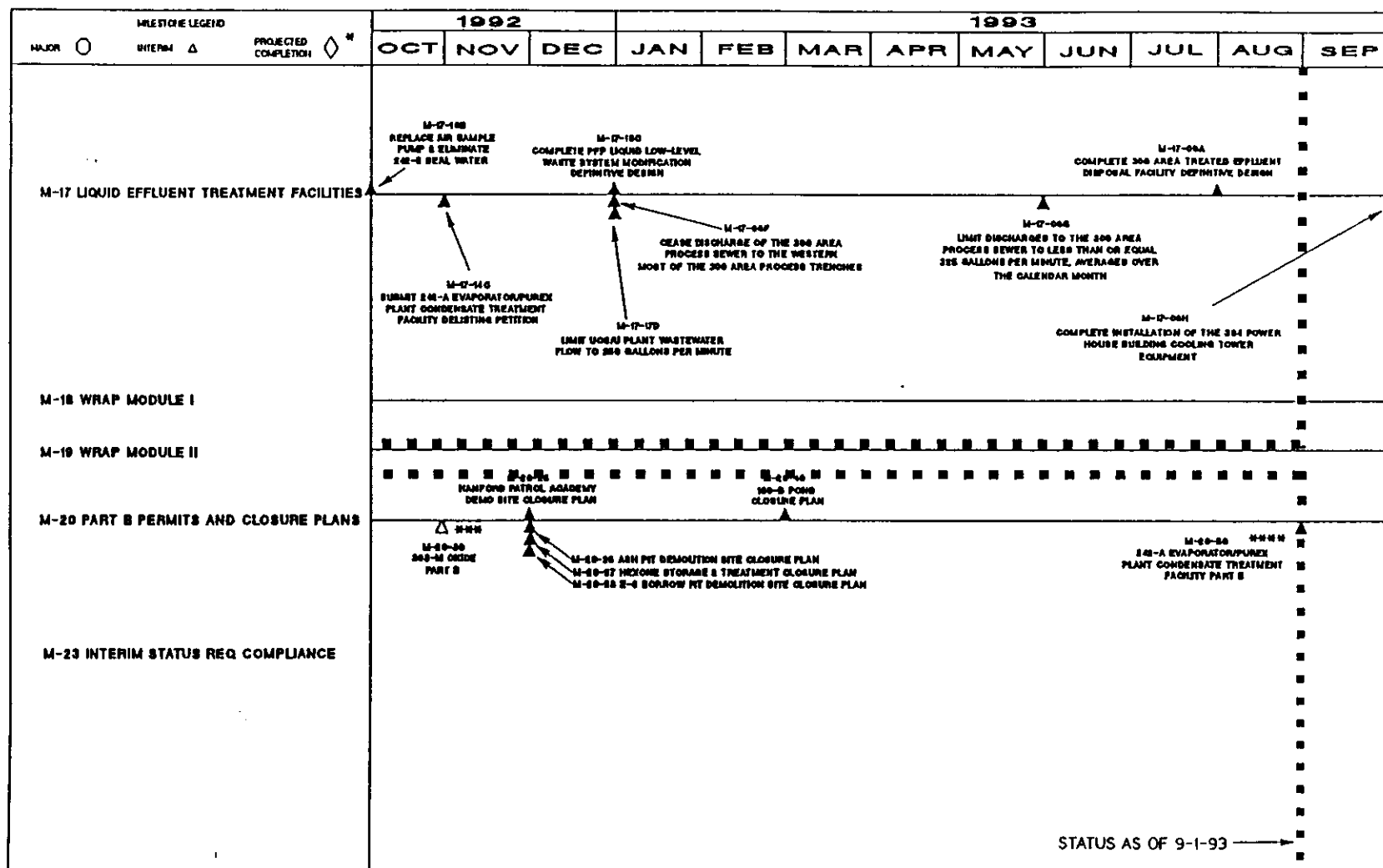
PAGE 2 OF 4



WHC-MR-0403-10

* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

TPA MILESTONES



* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

** WRAP 2B (TRU WASTE) DELAYED - WRAP 2A (LIW/RMW) PROJECTED TO BE COMPLETED AS SCHEDULED ON 9-30-99

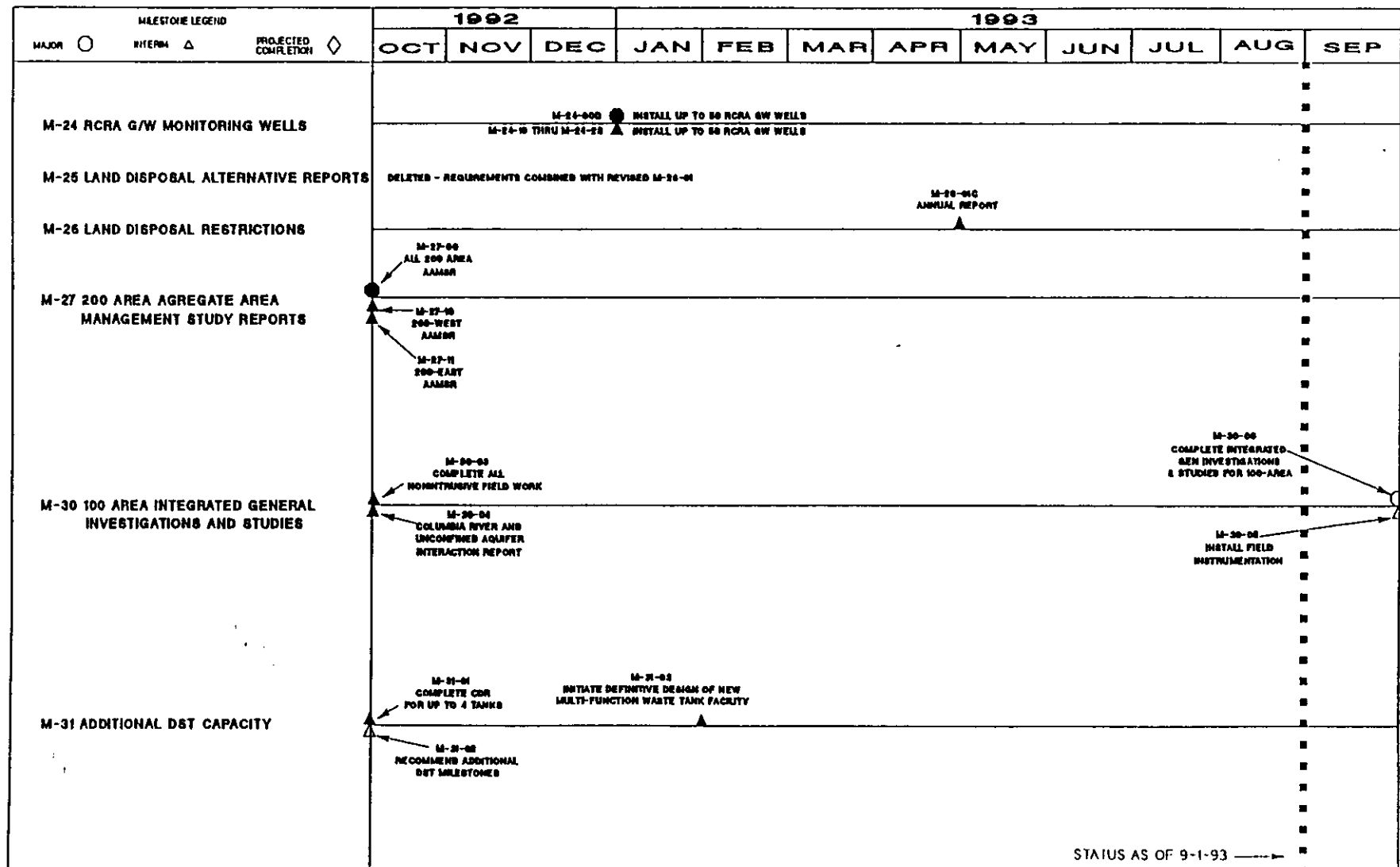
*** REQUEST TO WITHDRAW PART A DENIED; DISPUTE RESOLUTION STARTED.

**** FACILITY CURRENTLY TITLED "200 AREA EFFLUENT TREATMENT FACILITY".

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TPA MILESTONES

PAGE 4 OF 4



WHC-MR-0403-10

LIST OF TERMS

CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CY	calendar year
DOE-HQ	U.S. Department of Energy-Headquarters
DST	double-shell tank
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ERA	expedited response action
ETF	Effluent Treatment Facility
FY	fiscal year
HVAC	heating, ventilating, and air conditioning
HWVP	Hanford Waste Vitrification Plant
LDR	land disposal restrictions
LFI	limited field investigation
MWTL	Multi-Function Waste Tank
NEPA	<i>National Environmental Policy Act</i>
NOD	notice of deficiency
OU	operable unit
PNL	Pacific Northwest Laboratory
PUREX	Plutonium-Uranium Extraction (Plant)
RCRA	Resource Conservation and Recovery Act
RFI/CMS	RCRA facility investigation/corrective measures study
RI/FS	remedial investigation/feasibility study
RL	U.S. Department of Energy, Richland Operations Office
SST	single-shell tank
TBD	to be determined
Tri-Party Agreement	<i>Hanford Federal Facility Agreement and Consent Order</i>
TWRS	tank waste remediation system
WHC	Westinghouse Hanford Company
WRAP	Waste Receiving and Processing (Facility)
WSCF	Waste Sampling and Characterization Facility

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MAJOR MILESTONE: M-01-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: L. Erickson

MANAGER: R. J. Murkowski

BASELINE DATE: December 1996

PROJECTED DATE: To be determined (TBD)

DESCRIPTION: Complete 14 grout campaigns.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-01-01A	Complete and verify two campaigns of double-shell tank (DST) waste (including one campaign of phosphate-sulfate waste).	9/93	10/94
M-01-03A	Initiate construction of vaults 110 through 113.	11/93	Proposed Delete
M-01-01B	Complete one additional campaign of DST waste (total is three campaigns including one phosphate-sulfate waste campaign).	12/93	TBD

ACCOMPLISHMENTS

- Issue performance assessment for internal review by Westinghouse Hanford Company (WHC) Safety Environmental Advisory Council.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

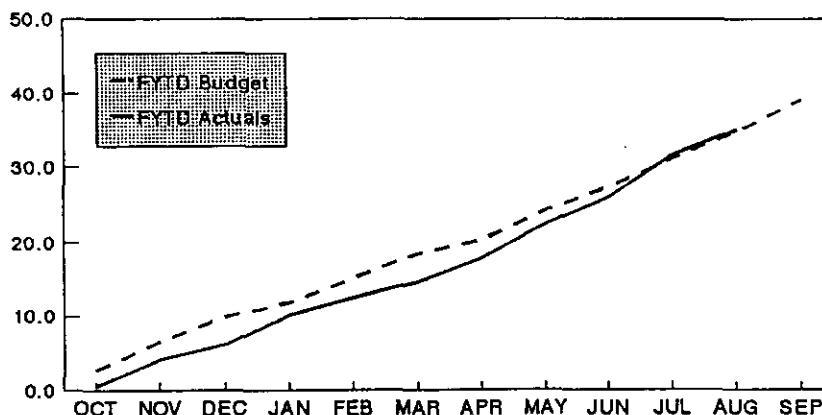
- Place cold cap material in vault 101.
- Complete characterization activities for DSTs 241-AP-102, -105, and -106.
- Complete performance assessment and submit to U.S. Department of Energy-Headquarters (DOE-HQ).
- Continue engineering of facility upgrades such as fire protection, Grout Processing Facility computer modifications, ventilation heat trace, lube oil, sanitary water, and fire system water.
- Resolve and close out comments on the final safety analysis report and obtain approval from DOE-HQ.

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MILESTONE STATUS/PROBLEMS/ISSUES

- The Low-Level Waste Disposal Program has been focusing on facility restart activities and accomplishment of *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) milestone M-01-01A, "Complete and verify two DST campaigns" by October 1994, as outlined in change request M-01-92-01A, currently in dispute resolution. Delays are being experienced beyond those identified in change request M-01-92-01A. These additional delays are attributable to programmatic uncertainties; loss of temporary and permanent personnel who were dedicated to facility readiness activities (procedures, facility upgrades, training/certification, and critical facility maintenance); mixer pump difficulties in DST 241-AP-102, which impacted waste sampling and characterization; and the continuing complexity with the performance assessment.
- The performance assessment has been completed and submitted to WHC Safety Environmental Advisory Council for review and comment. Chapter 3 was recently (August 27) submitted to the Safety Environmental Advisory Council. To date, most comments have been editorial and very minor in technical nature. Submittal of the document for DOE-HQ approval is expected by September 30, 1993.
- Analysis work of DST 241-AP-102, proposed waste feed for vault 102, will be completed by September 1993. The certified data report will be finalized during fiscal year (FY) 1994.
- In addition, characterization of DSTs 241-AP-105 and -106 will be completed by September 30, 1993. This analysis work will culminate in the issuance of a candidate tank waste characterization package. This document will be provided to the Washington State Department of Ecology (Ecology) and U.S. Environmental Protection Agency (EPA).
- The FY 1994 budget plan is being developed to support the proposed new technical strategy. Currently, the new technical strategy does not support milestone M-01-00.

\$ Millions



FYTD Budget	2.7	6.6	9.9	11.9	15.2	18.5	20.3	24.2	27.3	31.0	34.6	39.0
FYTD Actuals	0.5	4.2	6.2	10.2	12.5	14.7	17.9	22.4	25.9	31.5	34.9	
Spending Var	2.2	2.4	3.7	1.7	2.7	3.8	2.4	1.8	1.4	-0.5	-0.3	

Variance Explanation: None required.

MAJOR MILESTONE: M-02-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Initiate pretreatment of DST waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-02-03	Submit tank waste remediation system (TWRS) baseline scope, cost, and schedule.	8/31/93	1/31/94
M-02-05	Incorporate additional interim milestones to support pretreatment of DST waste.	8/31/93	1/31/94

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining and revision, including M-02.
- Continued implementation of Phase I of the DST 241-AZ-101 settling test to evaluate temperature response caused by shutting off airlift circulators (M-02-00-T7).

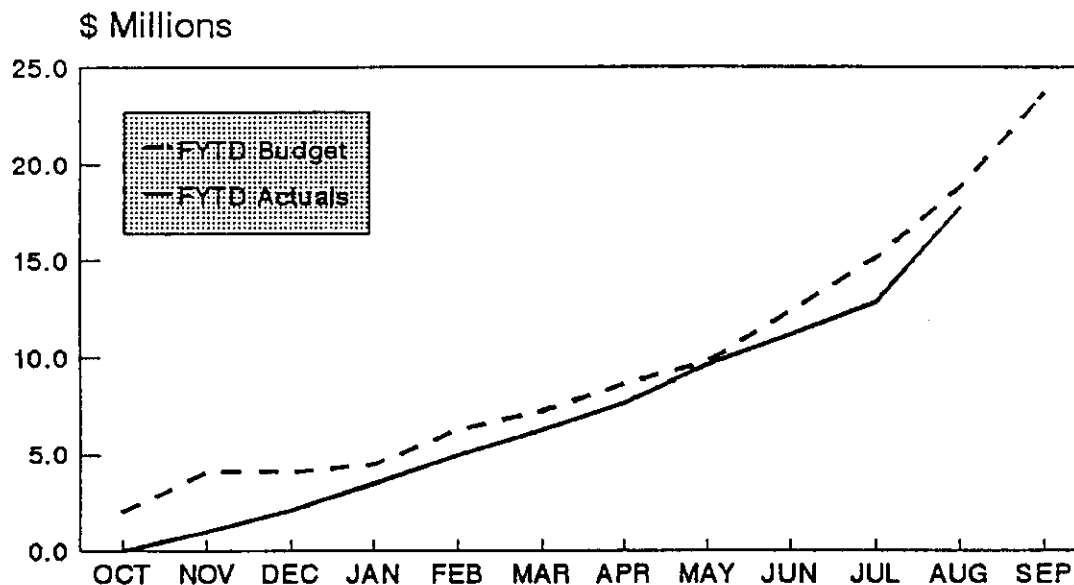
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Leave airlift circulators off through end of 90-day test period and continue to monitor DST 241-AZ-101 temperatures and sludge level. Issue process test report for Phase I of settling-bump test.
- Continue negotiations on M-02-00-related work. Establish revised milestones to reflect new strategy.

MILESTONE STATUS/PROBLEMS/ISSUES

- Target milestone M-02-00-T07 ("Initiate settling tests for neutralized current acid waste in-tank solids washing") may be satisfied through initiation of Phase I of the DST 241-AZ-101 settling-bump test. Formal documentation is being prepared to obtain agreement on what constitutes completion of this milestone.

- The TWRS rebaselining study was completed and released in March. A 6-month public participation period has begun to allow public review and comment before agreements are reached with the regulators. The process includes public meetings, workshops, and the formation of a task force of representatives from potentially affected groups. The task force will review the study and provide comments to the three parties. This activity and its review is now linked to the Tri-Party Agreement renegotiation activities under way.
- Milestones M-02-03 and M-02-05 were established before the Evaluation of Hanford Tank Waste Remediation Alternatives Agreement in Principle was reached. The scope of these two milestones is an integral part of the evaluation and negotiation authorized by the agreement. Draft change requests to delay completion to January 31, 1994, following completion of ongoing negotiations, were prepared and discussed with Ecology and EPA at the Project Managers' meeting on August 3, 1993. Ecology and EPA agreed to approve the change requests.



FYTD Budget	2.0	4.1	4.1	4.5	6.3	7.3	8.7	9.8	12.4	15.1	18.8	23.7
FYTD Actuals	0.0	1.0	2.1	3.5	5.0	6.3	7.7	9.6	11.2	12.8	17.7	
Spending Var	2.0	3.1	2.0	1.0	1.3	1.0	1.0	0.2	1.2	2.3	1.1	

Variance Explanation: None required.

MAJOR MILESTONE: M-03-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. A. Smith

BASELINE DATE: December 1999

PROJECTED DATE: June 2000

DESCRIPTION: Initiate Hanford Waste Vittrification Plant (HWVP) Operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-03-05	Initiate construction of the Vittrification Building foundation.	9/93	9/93
M-03-06	Initiate installation of the Vittrification Building mechanical equipment and piping.	8/94	2/95
M-03-06-T1	Initiate procurement of the melter.	11/93	12/93

ACCOMPLISHMENTS

- Completed the redesign and issued the revised design drawings of the Canister Storage Building reinforcing steel, releasing the hold on the Canister Storage Building basemat construction.
- Completed technical surveillance of Fluor for radiation shielding design.
- Completed the static evaluation of the Vittrification Building for increased seismic loadings.
- Completed structural steel erection, placement of base slab, and second floor concrete of the Administration Building/TWRS Office Building.
- Completed sanitary and raw water tie-ins to the 200 East Area water distribution system. Continued installation of raw and sanitary water piping to the site boundary.
- Detailed design is 57.3% complete.

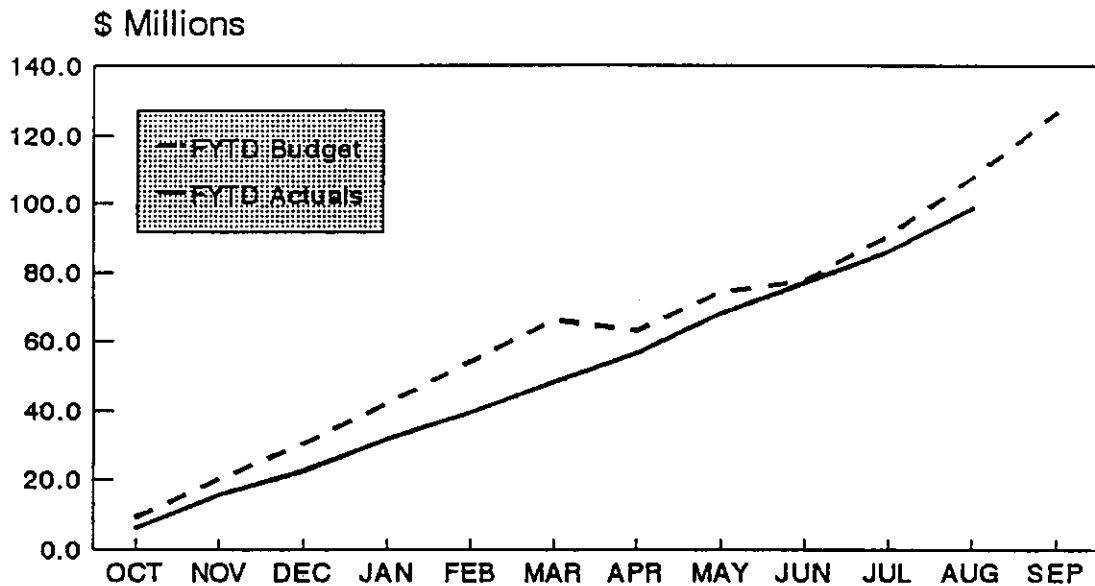
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Initiate installation of Mechanical Site Utilities.
- Complete Phase II of the HWVP Total Operating Efficiency evaluation, verifying Phase I.

- Continue study to increase the throughput capacity of the HWVP.
- Continue formal safety evaluation activities for the increased plant capacity (4X) concept.
- Complete construction of the temporary warehouse.
- Initiate construction of underground utilities.

MILESTONE STATUS/PROBLEMS/ISSUES

- Start of construction of the Vitrification Building foundation, milestone M-03-05, has been suspended for 6 months to September 1993, which has resulted in a corresponding 6-month delay to the start of hot operations. The 6-month period is being used for public review of the proposed TWRS rebaselining and for negotiating potential changes to the milestones in the agreement.



FYTD Budget	9.3	20.2	30.5	42.2	54.4	66.4	63.2	74.4	77.9	91.0	108.0	126.9
FYTD Actuals	6.2	15.8	22.5	32.0	39.5	48.4	56.9	68.3	77.2	86.2	98.9	
Spending Var	3.1	4.4	8.0	10.2	14.9	18.0	6.3	6.1	0.7	4.8	9.1	

Variance Explanation: None required.

MAJOR MILESTONE: M-04-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: September 30, 1993

PROJECTED DATE: September 30, 1993

DESCRIPTION: Provide annual reports of tank waste treatability studies.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-04-00D	Provide annual report of tank waste treatability studies.	09/93	09/93

ACCOMPLISHMENTS

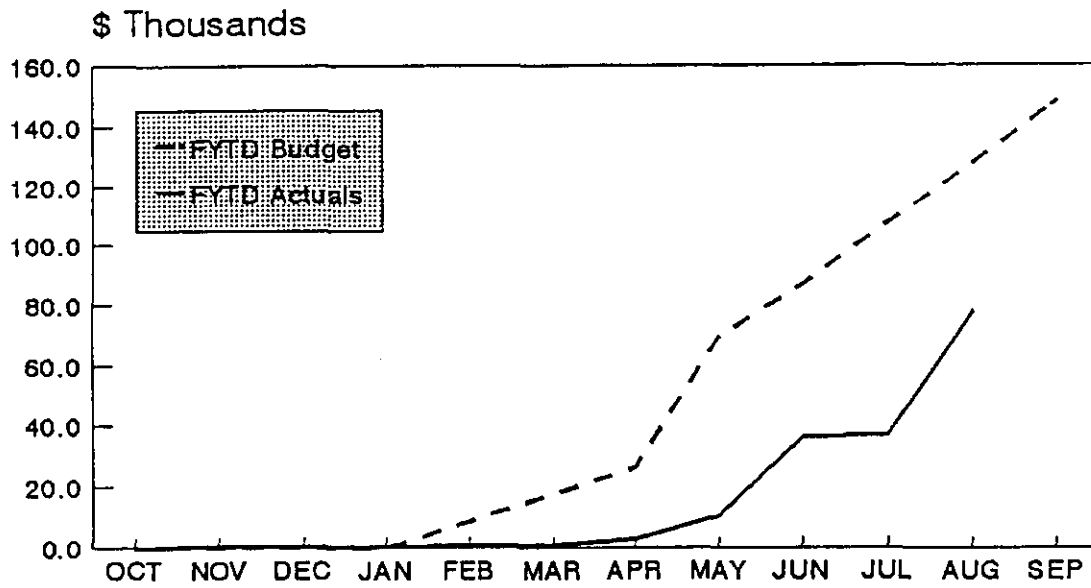
- Received all draft sections from contributors.
- Completed draft report and began its review within WHC.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Prepare and issue annual report.

MILESTONE STATUS/PROBLEMS/ISSUES

- Nothing significant to report.



FYTD Budget	0.0	0.0	0.0	0.0	8.9	17.7	26.6	69.2	87.2	107.7	128.1	148.6
FYTD Actuals	0.0	0.5	0.5	0.5	0.7	0.7	2.8	10.6	36.3	37.0	78.0	
Spending Var	0.0	-0.5	-0.5	-0.5	8.2	17.0	23.8	58.6	50.9	70.7	50.1	

Variance Explanation: None required.

MAJOR MILESTONE: M-05-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: R. E. Raymond

BASELINE DATE: September 1995

PROJECTED DATE: TBD

DESCRIPTION: Complete single-shell tank (SST) interim stabilization.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-05-03	Interim stabilize an additional 4 SSTs.	9/91	TBD
M-05-04	Interim stabilize an additional 9 SSTs.	9/92	TBD
M-05-05	Interim stabilize an additional 11 SSTs.	1/94	TBD
M-05-17C	Provide to Ecology and EPA the draft curriculum for the upgraded Maintenance Training Program and an implementation schedule for that training.	6/94	6/94
M-05-17B	Complete Nuclear Operator training.	12/93	12/93

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone.
- The three parties approved change control form M-05-93-02, which delayed the due date for milestone M-05-05 from September 1993 to January 1994. This delay will provide time for the overall negotiations to conclude, but not time for the milestone to be met. The overall negotiations will completely restructure the M-05-00 activities.
- Replaced a plugged jet assembly on SST 241-BX-111 in a first-ever action. This cleared the way for physical start-of-pumping of this tank.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Restart the field work following the review of conduct of operations emanating from the tank farm administrative hold.

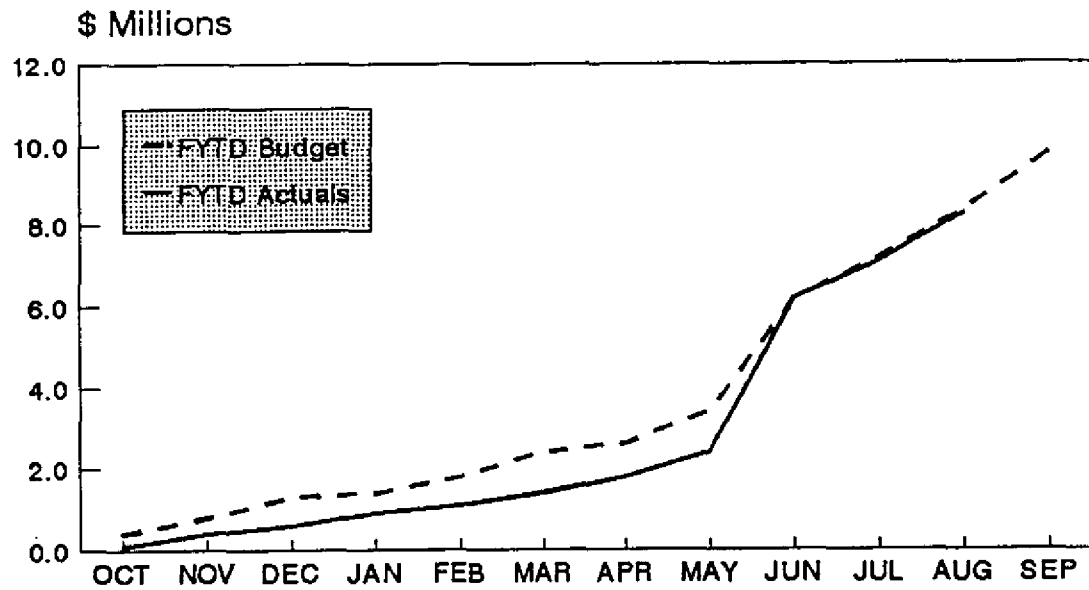
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- Begin emergency pumping of SST 241-BX-111 and pumping of SST 241-BX-110.
- Complete safety analysis report addendum to allow alternative methods for transfer of RAD waste within SST farms. This report is now in U.S. Department of Energy, Richland Operations Office (RL) for review.
- Continue restoration of double-contained receiver tank 244-U.

MILESTONE STATUS/PROBLEMS/ISSUES

- An administrative hold has been imposed on all tank farm operations pending a review of conduct of operations within all Tank Farm Operations work. This hold has stopped all nonessential field work and will have a significant impact on the stabilization program, including SSTs 241-BY-102, -BY-109, -C-102, -C-107, and -C-110.
- RL submitted a draft Tri-Party Agreement change control form to the regulators that would add the start of pumping SST 241-BX-111 in August 1993 as a new interim milestone. Ecology has rejected this approach. RL is reviewing its options before deciding its next step.
- A "Creation of Danger," as defined in Article 31 of the Tri-Party Agreement, was declared on January 28, 1992. To protect worker safety, a work restriction was placed on all SST farms, and fresh air is required to operate within the boundaries of three farms. On February 28, 1992, all waste transfers in the 200 Area tank farms were halted because of concerns on fissile material inventory. The cessation on waste transfers continues. The impacts to the Tri-Party Agreement will result in a change request.
- A safety question was raised about the hazards of higher temperatures that could result in the SSTs when liquid is removed from them. Analyses and studies continue on this question.
- This milestone is being reevaluated under the new technical strategy of the TWRS; therefore, the negotiations may result in changes to this milestone. A public involvement program is in place, and renegotiations of this milestone are in progress.

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FYTD Budget	0.4	0.6	1.3	1.4	1.8	2.4	2.6	3.4	6.2	7.2	8.4	9.8
FYTD Actuals	0.1	0.4	0.6	0.9	1.1	1.4	1.8	2.4	6.2	7.1	8.3	
Spending Var	0.3	0.4	0.7	0.5	0.7	0.9	0.8	1.0	0.0	0.1	0.1	

Variance Explanation: None required.

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MAJOR MILESTONE: M-06-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Develop SST waste retrieval technology and complete scale-model testing.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including possible revision of this milestone. Continuing discussions cover the recommended milestone program baseline.

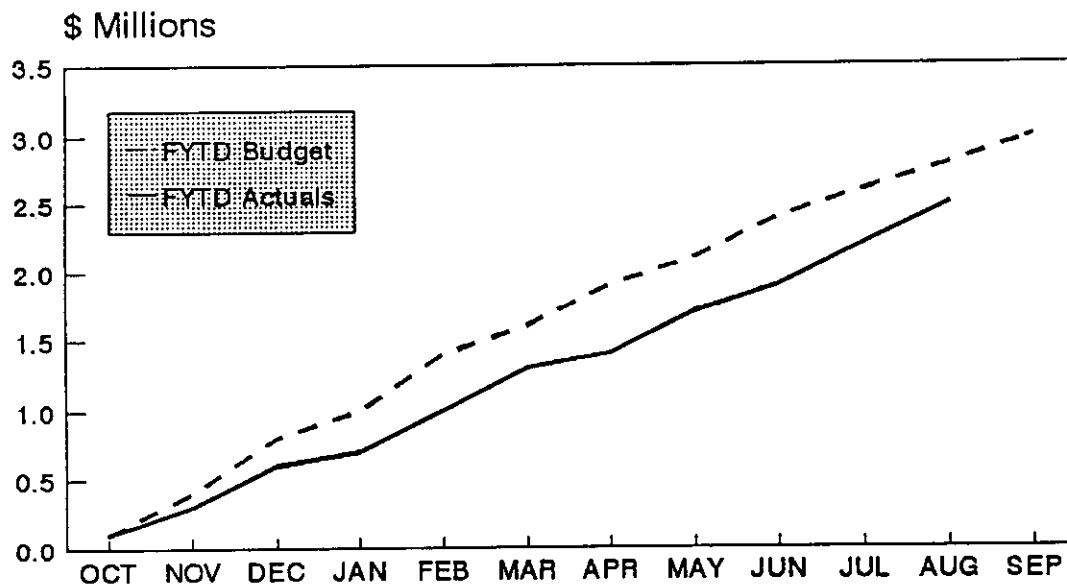
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit, review, and obtain regulator concurrence on the M-06 definition plan by September 1993.
- Experimentally optimize retrieval rates with computer modeling. Define the airlift conveyance system limits.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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FYTD Budget	0.1	0.4	0.8	1.0	1.4	1.6	1.9	2.1	2.4	2.6	2.8	3.0
FYTD Actuals	0.1	0.3	0.6	0.7	1.0	1.3	1.4	1.7	1.9	2.2	2.5	
Spending Var	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.4	0.2	0.4	0.3	

Variance Explanation: The cost underrun results from contract procurement commitments that have not been costed as expected.

MAJOR MILESTONE: M-07-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

DESCRIPTION: Initiate full-scale demonstration of waste retrieval technology.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Continuing discussions explained the recommended milestone program baseline, as well as discussions on tank farm closure. Barrier technology and application requirements were also discussed.
- Continued preparation of environmental and regulatory compliance documentation as required by *Resource Conservation and Recovery Act* (RCRA), *Washington Clean Air Act of 1967*, and *National Environmental Policy Act* (NEPA).

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Restart the field work following the review of conduct of operations emanating from the tank farm administrative hold.
- Develop a detailed plan for M-07-00 achievement, integrated with milestone M-06-00 ("Develop SST waste retrieval technology") and the Underground Storage Tank Integrated Demonstration activities. Propose revisions to the M-07 interim milestones based on the detailed schedules.
- Develop and present to the regulators a position paper on TWRS program regulatory compliance issues.

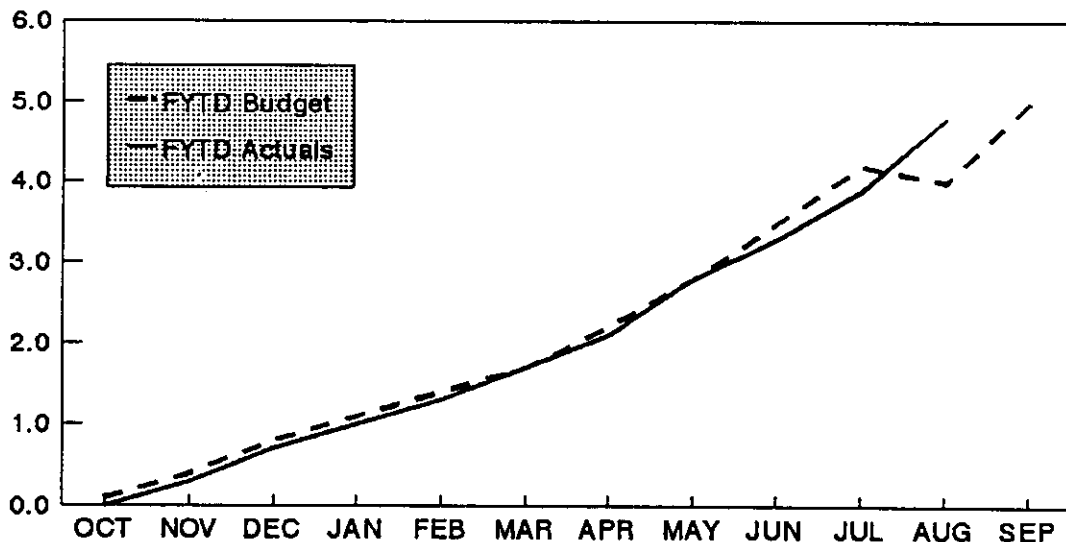
MILESTONE STATUS/PROBLEMS/ISSUES

- An administrative hold has been imposed on all tank farm operations pending a review of conduct of operations within all Tank Farm Operations work. This has stopped all nonessential field work.

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- Preliminary assessments of the impacts of performing NEPA analyses (environmental assessment or environmental impact statement) suggest they could substantially delay this program.
- The preliminary strategy for SST retrieval includes two reference technologies: sluicing and long-reach manipulator systems. The retrieval demonstration under M-07 will use sluicing technology. Significant development work is required before other retrieval technologies can be used. The long-reach manipulator system (or alternative technology) will be deployed to complete the retrieval demonstration if sluicing cannot achieve the 95-percent waste retrieval criteria for the M-07 demonstration.
- The preliminary studies on subsurface barriers show this technology is in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone could not be met as scheduled, and the benefit to the environment is questionable. The utilization of surface barriers would provide similar protection to groundwater by preventing precipitation from recharging the vadose zone.
- This milestone is being reevaluated under the new technical strategy of the TWRS. The negotiations may result in changes to this milestone. A public involvement program is in place, and renegotiations of this milestone are in progress.

\$ Millions



FYTD Budget	0.1	0.4	0.8	1.1	1.4	1.7	2.2	2.8	3.5	4.2	4.0	5.0
FYTD Actuals	0.0	0.3	0.7	1.0	1.3	1.7	2.1	2.8	3.3	3.9	4.8	
Spending Var	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.2	0.3	-0.8	

Variance Explanation: Spending overrun is caused by acceleration of future work scope into FY 1993. A change request is pending which will add \$600,000 to M-07 to cover costs of the accelerated work.

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MAJOR MILESTONE: M-08-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 2004

PROJECTED DATE: June 2004

DESCRIPTION: Initiate full-scale tank farm closure demonstration project.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Continuing discussions explained the recommended milestone program baseline, as well as discussions on tank farm closure. Also discussed barrier technology and application requirements.

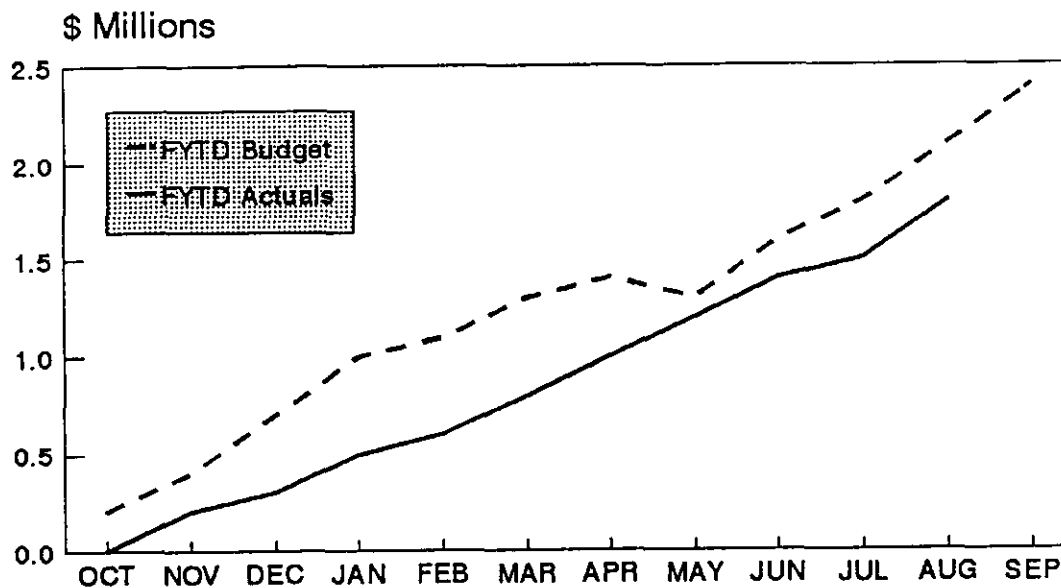
PLANNED ACTIONS FOR THE NEXT 6 MONTHS

- Complete a tank farm retrieval and closure program plan.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.
- The preliminary studies on subsurface barriers indicate this technology is in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone cannot be met as scheduled and the benefit to the environment is questionable. The utilization of surface barriers would provide similar protection to groundwater by preventing the recharge of the vadose zone through precipitation.
- This milestone is being reevaluated under the new technical strategy of the TWRS. This milestone may be modified by the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.

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FYTD Budget	0.2	0.4	0.7	1.0	1.1	1.3	1.4	1.3	1.6	1.8	2.1	2.4
FYTD Actuals	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.8	
Spending Var	0.2	0.2	0.4	0.5	0.5	0.5	0.4	0.1	0.2	0.3	0.3	

Variance Explanation: Spending underrun results from delay of One-Fourth-Scale Test Facility construction. The Test Facility has been identified as carryover workscope into FY 1994.

MAJOR MILESTONE: M-09-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: June 2018

PROJECTED DATE: June 2018

DESCRIPTION: Complete closure of all 149 SSTs.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Continuing discussions explained the recommended milestone program baseline, as well as discussions on tank farm closure. Also discussed barrier technology and application requirements.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

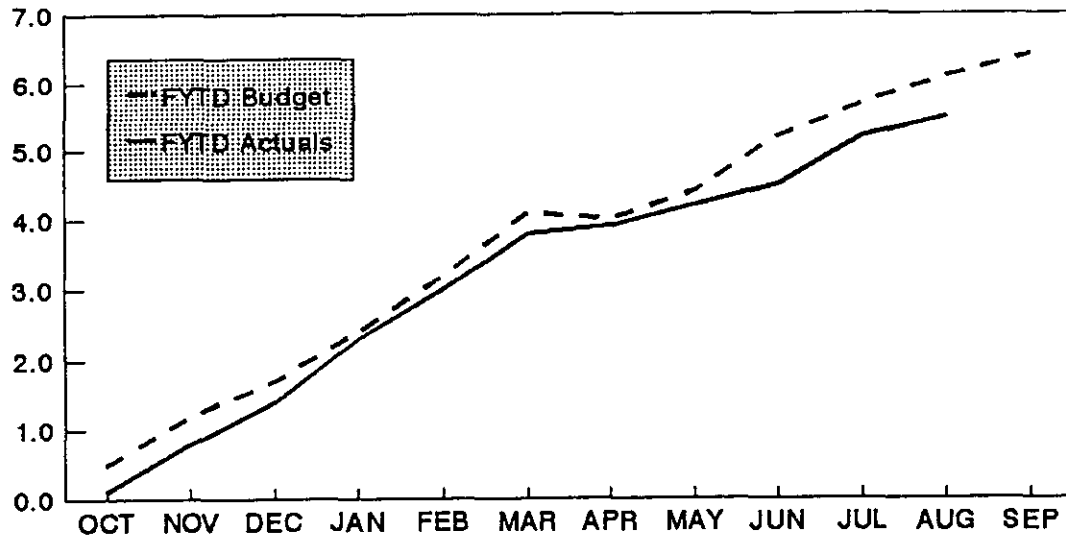
- Continue to redefine SST waste disposal strategy under the TWRS Decision Plan.
- Issue in the *Federal Register* a notice of intent for the TWRS Environmental Impact Statement.
- Begin the next revision to the SST Closure/Corrective Action Work Plan, a precursor document for the SST Closure Plan.

MILESTONES STATUS/PROBLEMS/ISSUES

- This milestone is on schedule; however, it may be in jeopardy if preclosure activities are not accelerated. Several activities require acceleration: Supplemental Environmental Impact Statement and Record of Decision preparation, SST Waste and Field Characterization, Technology Development, and concurrent permitting with facility design.
- This milestone is being reevaluated under the new technical strategy of the TWRS; therefore, this milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.

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\$ Millions



FYTD Budget	0.5	1.2	1.7	2.4	3.2	4.1	4.0	4.4	5.2	5.7	6.1	6.4
FYTD Actuals	0.1	0.8	1.4	2.3	3.0	3.8	3.9	4.2	4.5	5.2	5.5	
Spending Var	0.4	0.4	0.3	0.1	0.2	0.3	0.1	0.2	0.7	0.5	0.6	

Variance Explanation: None required.

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MAJOR MILESTONE: M-10-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: J. G. Propson

BASELINE DATE: September 1998

PROJECTED DATE: September 1998

DESCRIPTION: Complete analyses of at least two complete core samples from each SST.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-10-07	Obtain 24 core samples from 12 SSTs.	9/93	TBD
M-10-13	Restore rotary model sampling capability at the Hanford Site.	9/93	TBD

ACCOMPLISHMENTS

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Substantial agreement has been reached on the recommended changes to a new milestone program baseline. These negotiation sessions also continued discussions with the regulators on a new DOE-HQ direction that proposes the SST Characterization Program and related Tri-Party Agreement milestones be reevaluated to reflect retrieval requirements. Characterization data is required to (1) resolve tank safety issues, (2) develop retrieval technologies, and (3) identify pretreatment technologies. Changes to the baseline will need to be reflected in the Tri-Party Agreement major milestone M-10-00.

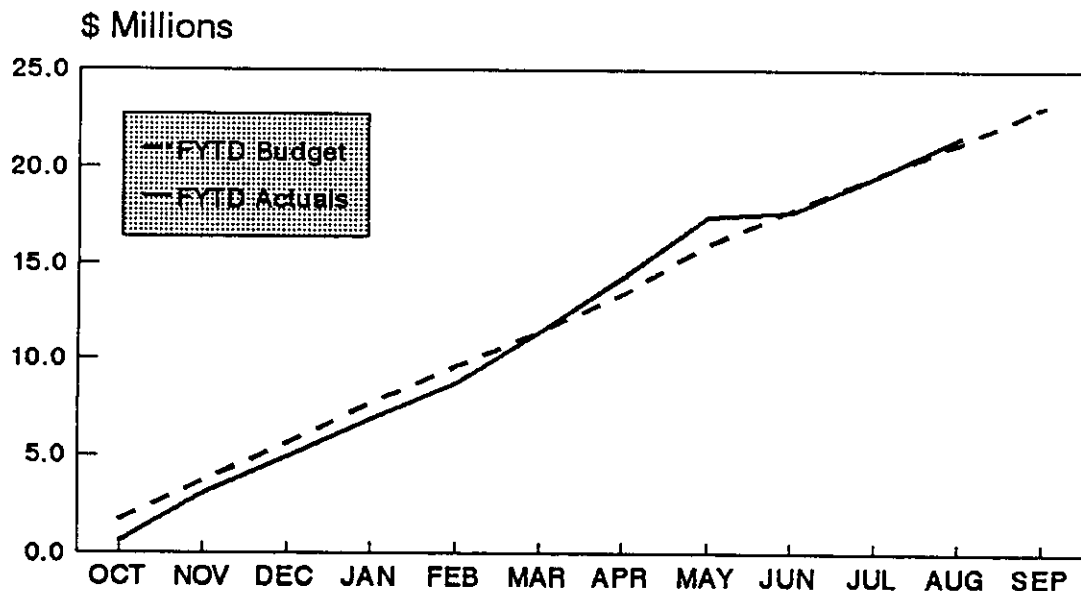
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Restart the field work following the review of conduct of operations emanating from the tank farm administrative hold.
- Obtain core samples from SSTs 241-C-106, -C-108, -C-111, and -T-101. All of these SSTs are safety issue SSTs.
- Continue rotary mode sampling testing and implementation.
- Issue the TWRS Waste Characterization Plan. This rewrite of the SST Waste Characterization Plan will incorporate all TWRS requirements into a single plan.

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MILESTONE STATUS/PROBLEMS/ISSUES

- An administrative hold has been imposed on all tank farm operations pending a review of conduct of operations within all Tank Farm Operations work. This has stopped all nonessential field work, including work towards meeting milestones M-10-07 and M-10-13.
- The major milestone is on schedule; however, interim milestones M-10-07 through M-10-12 are under evaluation. Several actions can be taken to ensure meeting these milestones, both internally and with the regulators. These are being discussed with the regulators.
- The core sampling program is in a technical standdown because of a possible problem with sample recovery. Less material is being recovered than is expected. Core samples were taken from SST 241-T-105, and the problem appears to have persisted. Until this is resolved, no further core samples are being taken.
- This milestone is being reevaluated under the new technical strategy of the TWRS; therefore, this milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.



FYTD Budget	1.7	3.7	5.6	7.7	9.6	11.4	13.4	16.0	17.8	19.6	21.3	23.2
FYTD Actuals	0.6	3.1	4.9	6.9	8.7	11.4	14.3	17.4	17.7	19.5	21.6	
Spending Var	1.1	0.6	0.7	0.8	0.9	0.0	-0.9	-1.4	0.1	0.1	-0.3	

Variance Explanation: None required.

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MAJOR MILESTONE: M-11-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Construction:
 - Resolved heating, ventilating, and air conditioning (HVAC) supply duct issue. Interior duct accepted as is and exterior duct will be replaced.
 - Completed sheet rock installation.
 - Started installation of trench piping, cell electrical conduit, and mechanical piping.
- Startup Activities:
 - Submitted Level 3 startup schedule to signature cycle for final approval.
 - Submitted draft startup definition for review.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

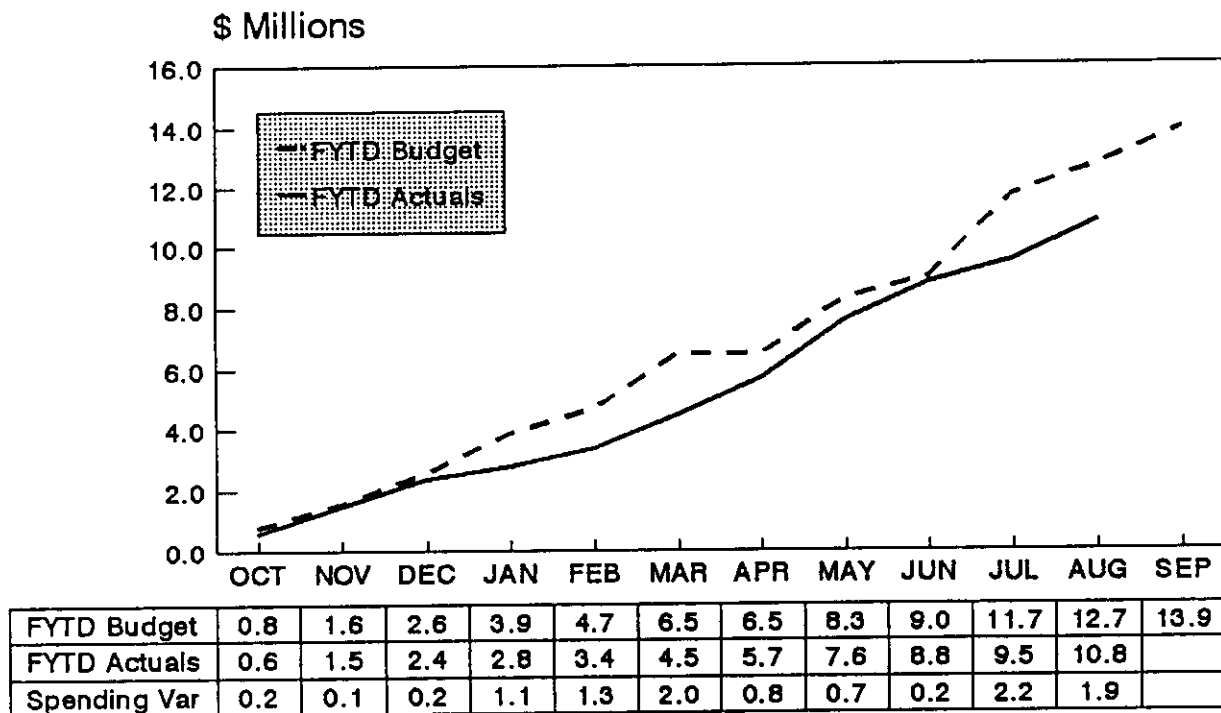
- Construction:
 - Complete installation of trench piping, cell electrical conduit, and mechanical piping.
 - Install suspended acoustical ceiling and lighting.
 - Test sample transfer cart.

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- Complete attachment of all transfer drawers and compartments to the hot cell.
- Complete installation and testing of hot cell drain lines.
- Startup Activities:
 - Begin operational readiness review process.
 - Identify equipment required for startup and prepare purchase orders.

MILESTONE STATUS/PROBLEMS/ISSUES

None.



Variance Explanation: Environmental hot cell expansion work, project W-041H, originally scheduled to end in FY 1993, was rescheduled to end in June 1994. Capital budgets associated with this work have not been realigned with the revised construction schedule, resulting in unrealistic FY to date budget figures. This project is proceeding at the revised schedule and within budget. The spending variance for the project will be eliminated as the project nears completion.

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MAJOR MILESTONE: M-13-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: Annual beginning
calendar year (CY) 1993PROJECTED DATE: Annual beginning
CY 1993

DESCRIPTION: Submit six Remedial Investigation/Feasibility Study (RI/FS) or RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) work plans each year.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected*
M-13-04	Submit operable unit (OU) 200-ZP-1 Interim Remedial Measure Proposed Plan.	9/93	9/93
M-13-05	Submit OU 100-DR-2 Work Plan.	10/93	10/93
M-13-06	Submit OU 200-BP-5 Work Plan.	12/93	12/93

ACCOMPLISHMENT

- Received Tri-Party approval on Tri-Party Agreement change request (M-13-93-02) changing M-13-04 from "Submit 200-ZP-1 Work Plan August 1993" to "Submit 200-ZP-1 Interim Remedial Measure Proposed Plan September 1993."

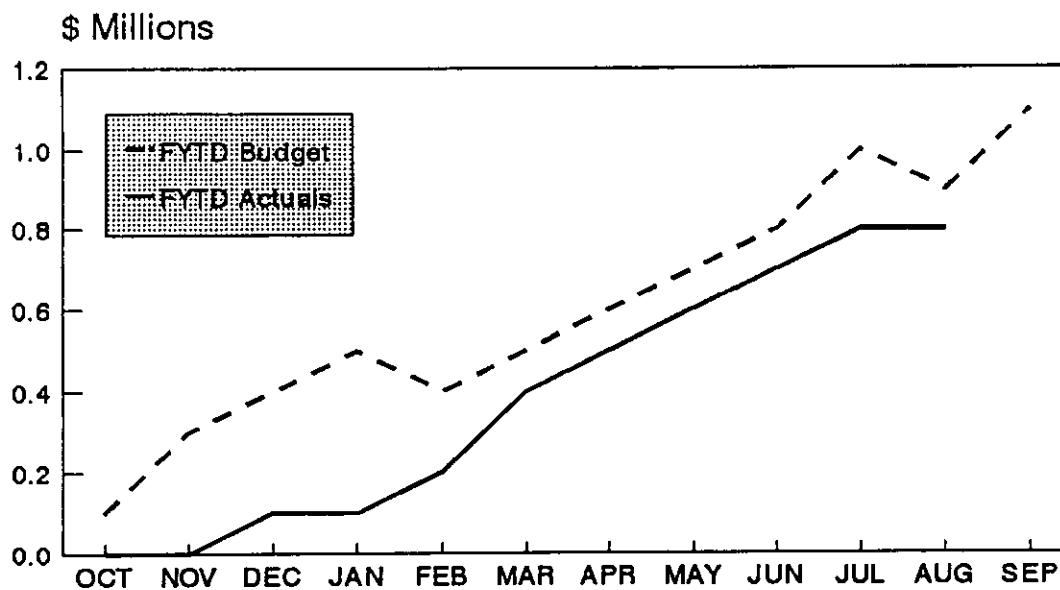
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit OU 200-ZP-1 Interim Remedial Measure Proposed Plan to the regulators for review.
- Submit the OU 100-DR-2 Work Plan to the regulators for review.
- Continue to resolve comments on the OU 200-UP-2 Work Plan with the regulators.
- Continue to resolve scheduling conflicts between N Operations and environmental restoration for the OU 100-NR-1 and 100-NR-2 Work Plans.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

See Table 3



FYTD Budget	0.1	0.3	0.4	0.5	0.4	0.5	0.6	0.7	0.8	1.0	0.9	1.1
FYTD Actuals	0.0	0.0	0.1	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.8	
Spending Var	0.1	0.3	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0.2	0.1	

Variance Explanation: None required.

MAJOR MILESTONE: M-14-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: October 1995

PROJECTED DATE: October 1995

DESCRIPTION: Provide low-level mixed waste laboratory services.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-14-02	Complete construction of a 27-module Waste Sampling and Characterization Facility (WSCF).	10/93	10/93
M-14-03	Initiate WSCF operations.	4/94	4/94

ACCOMPLISHMENTS

- Construction:
 - Completed the analytical laboratory modules' HVAC; the modules are awaiting acceptance testing. The piping systems have been completed to allow pressure, leak, and functional testing.
 - Electrical and instrumentation installations for HVAC components in the Administrative Area and Nuclear Spectroscopy Laboratory has been completed.
 - Sanitary Systems Maintenance accepted the sanitary sewer system.
 - Began construction on the water loop (12-inch water line from 200 West water mains to WSCF site).
- Construction (auxiliary structures):
 - Fire Protection systems for Environmental Archive Storage (6267), Mobile Laboratory Storage Facility (6269), and Environmental Data Remedial Tracking System Facility (6270) have passed acceptance test procedure and been accepted by the Hanford Fire Department.
- Startup Activities:
 - Continued rampup of the operating staff.

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- Commercial Laboratory:
 - Held award kickoff meetings with International Technology (IT) and Lockheed on August 10 and 13, 1993. Assessment of the IT-Richland Facility was initiated on August 30 and is expected to be complete by September 3rd. The Richland Facility will be followed by an assessment of IT-St. Louis to begin September 7, 1993.

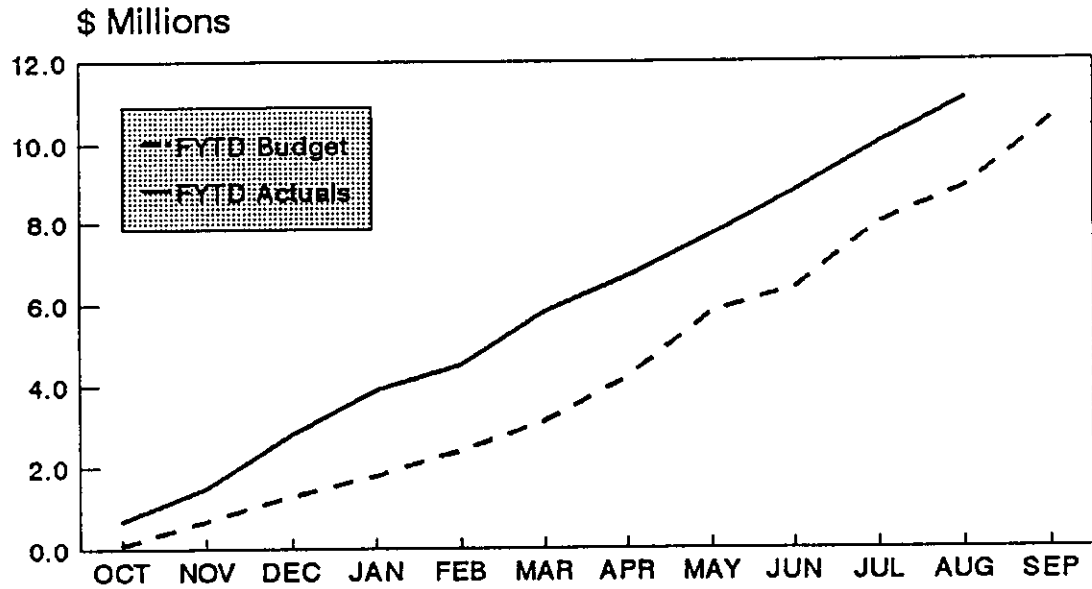
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Construction:
 - Complete Acceptance Test Procedures for HVAC for the Administrative Area and Nuclear Spectroscopy Laboratory.
 - Complete Acceptance Testing Procedures for HVAC and perform formal turnover of Auxiliary Structures.
 - Complete 12-inch water line addition.
- Startup Activities:
 - Receive and install analytical equipment and conduct operation testing.
 - Obtain and train new staff and start operational readiness review.
- Commercial Laboratory:
 - Continue assessments of facilities proposed to perform work under the new awards. Transition analytical workload from current contracts to the new laboratory contractors.

MILESTONE STATUS/PROBLEMS/ISSUES

- All module shipments have now been received onsite, but require rework and testing before any cost or schedule impact can be fully determined. Impacts to the total estimated cost or schedule have been estimated to support a October 1993 completion. Contractors are working 10 hours a day, 6 to 7 days a week to maintain this schedule.
- Two protests have been filed by Ecotek on the commercial laboratory contracts. WHC Legal and Procurement are preparing a response to the General Accounting Office.

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FYTD Budget	0.1	0.7	1.3	1.8	2.4	3.1	4.2	5.8	6.4	8.0	8.9	10.6
FYTD Actuals	0.7	1.5	2.8	3.9	4.5	5.8	6.7	7.7	8.8	10.0	11.1	
Spending Var	-0.6	-0.8	-1.5	-2.1	-2.1	-2.7	-2.5	-1.9	-2.4	-2.0	-2.2	

Variance Explanation: The cost overrun results from the exclusion of previous years' capital budgets. Spending rates to support the April 1994 WSCF startup continue as planned. With previous years' capital budget included, trends indicate this project will be completed at the approved project budget level. This may be impacted by the recent contract default of U.S. Modular.

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MAJOR MILESTONE: M-15-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 2005

PROJECTED DATE: September 2005

DESCRIPTION: Complete the RI/FS or RCRA RFI/CMS process for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-15-02E	Submit draft barrier constructability report to EPA and Ecology.	1/31/94	1/31/94
M-15-03B	Submit RI Phase II report for OU 300-FF-1 to Ecology and EPA.	12/31/93	12/31/93
M-15-05B	Complete OU 100-HR-1 Treatability Study Activities.	11/30/93	11/30/93
M-15-06A	Submit OU 100-HR-3 Limited Field Investigation (LFI) Report to Ecology and EPA.	10/31/93	10/31/93
M-15-06B	Complete OU 100-HR-3 Treatability Study Activities.	11/30/93	11/30/93
M-15-08C	Submit OU 100-BC-1 Treatability Study Report to Ecology and EPA.	1/31/94	1/31/94
M-15-10A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-KR-1 to Ecology and EPA.	10/31/93	10/31/93
M-15-11B	Submit OU 100-KR-4 LFI Report to Ecology and EPA.	1/12/94	1/12/94
M-15-13A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-FR-1 to Ecology and EPA.	11/31/93	11/31/93
M-15-13F	Submit OU 100-FR-3 LFI Report to Ecology and EPA.	4/14/94	4/14/94

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ACCOMPLISHMENTS

- Submitted the OU 100-DR-1 LFI report and the quality requirements assessment report to the regulators, completing Tri-Party Agreement milestone M-15-07A.
- Completed OU 100-DR-2 borehole drilling at 116-DR-7 inkwell crib.
- Submitted the fourth round groundwater data validation report for OU 100-BC-5 to RL and the regulators.
- Submitted the OU 100-BC-5 LFI report and QRA report to RL and the regulators, completing Tri-Party Agreement milestone M-15-09B.
- Submitted the third round groundwater data validation report for the OU 100-KR-4 to RL and the regulators.
- Submitted the second quarter groundwater data validation report for OU 100-FR-3 to the regulators.
- Submitted the OU 100-HR-1 LFI report and QRA report to the regulators, completing Tri-Party Agreement milestone M-15-05A.
- Restarted geophysical investigation of selected burial grounds for OU 100-HR-2.
- Awarded the OU 300-FF-1 soil treatability contract to alternative remedial technologies.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

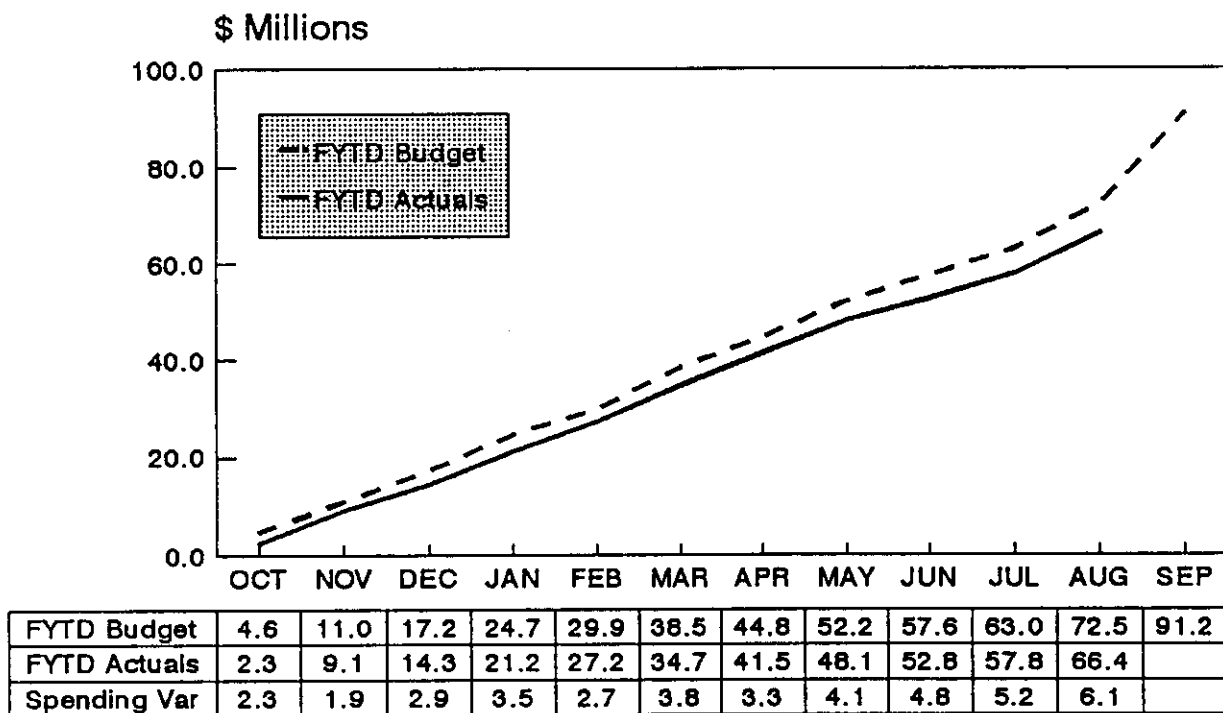
- Perform the OU 100-BC-5 fifth round of groundwater sampling in September 1993.
- Submit the OU 100-HR-3 LFI report to the regulators on October 31, 1993.
- Complete OU 200-BP-1 eighth round of groundwater sampling by September 1993.
- Complete the OU 100-DR-1 treatability study activities by November 1993, completing interim Tri-Party Agreement milestone M-15-07B.
- Initiate OU 100-DR-2 test pit drilling by mid-September 1993.
- Complete OU 100-KR-1 LFI report and QRA report for transmittal to WHC for review October 31, 1993, RL review December 31, 1993, and submittal to regulators February 28, 1994.
- Submit OU 100-FR-1 validated data from the vadose borehole drilling program to the regulators by mid-September 1993. This is a 2-month acceleration of the OU 100-FR-1 schedule.
- Complete OU 100-FR-3 fourth round of sampling October 1993.

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- Issue the 100 Area excavation treatability test plan September 1993.
- Complete OU 100-HR-1 treatability study activities November 1993, completing Tri-Party Agreement milestone M-15-05B.
- Submit the OU 100-HR-3 LFI report to the regulators October 1993, completing Tri-Party Agreement milestone M-15-06A.
- Initiate OU 100-HR-3 field activities for the 100 Area excavation treatability test.
- Complete geophysical work at OU 100-HR-2 late September 1993.
- Complete the OU 200-BP-5 treatability test plan and submit to the regulators by January 31, 1994.
- Complete OU 200-UP-1 pump testing portion of aquifer testing of existing wells by the end of October 1993.
- Begin construction of the Hanford Prototype Barrier in September 1993.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



Variance Explanation: None required.

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MAJOR MILESTONE: M-16-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: September 2018

PROJECTED DATE: September 2018

DESCRIPTION: Complete the remedial actions for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Shipped the remaining two drums to the solid waste landfill at the sodium dichromate expedited response action (ERA).
- Submitted the N Springs ERA Proposal, Draft A, to the regulators, completing an RL commitment.
- Submitted 618-11 Burial Ground ERA Proposal, Draft A, to the regulators, completing an RL commitment.

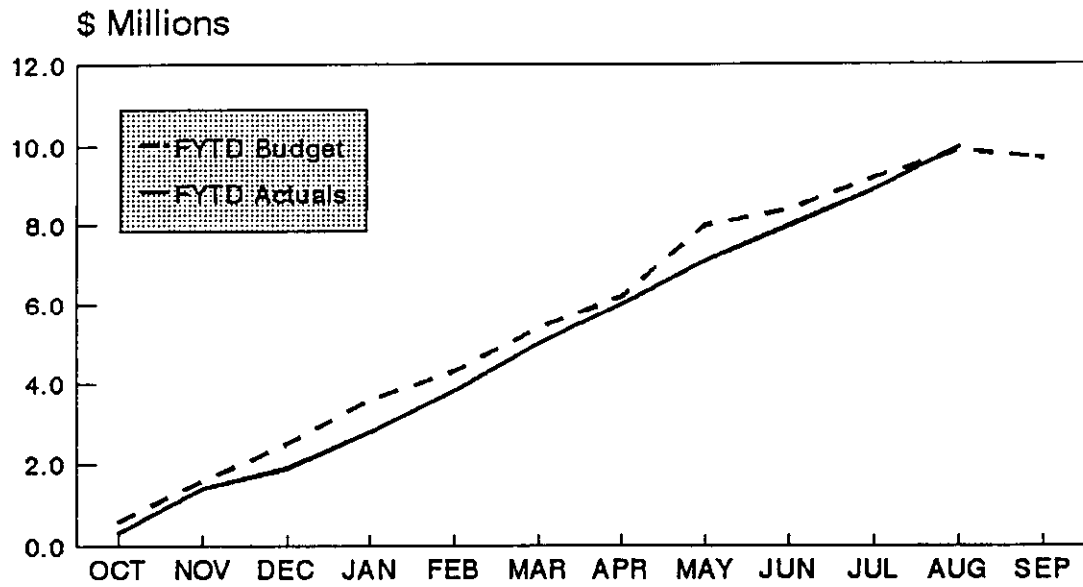
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete remediation of the riverland rail site by September 1993.
- Reseed and revegetate at the sodium dichromate ERA site in the fall.
- Resume vadose emission system activities at 216-A-1A/Z-18 by mid-September 1993.
- Complete FY 1994 Work Plan for carbon tetrachloride ERA by November 1993.
- Complete vadose emission system operations optimization plan by January 31, 1994.
- Complete vadose emission system upgrade plan by March 15, 1994.
- Install passive vadose emission system system by March 31, 1994.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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FYTD Budget	0.6	1.6	2.5	3.6	4.3	5.4	6.2	8.0	8.4	9.2	9.9	9.7
FYTD Actuals	0.3	1.4	1.9	2.8	3.8	5.0	6.0	7.1	8.0	8.9	10.0	
Spending Var	0.3	0.2	0.6	0.8	0.5	0.4	0.2	0.9	0.4	0.3	-0.1	

Variance Explanation: None required.

MAJOR MILESTONE: M-17-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: D. E. Kelley

M-17-00A:**BASELINE DATE:** June 1995**PROJECTED DATE:** June 1995

DESCRIPTION: Complete liquid effluent treatment facilities and upgrades for Phase I effluents.

M-17-00B:**BASELINE DATE:** October 1997**PROJECTED DATE:** October 1997

DESCRIPTION: Implement best available technology/all known, available, and reasonable methods of prevention, control, and treatment for all Phase II liquid effluents at the Hanford Site.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-17-06H	Complete installation of the 384 Power House Building cooling tower equipment.	9/93	9/93
M-17-06I	Complete closed loop cooling for selected equipment in Building 325 (as provided by Project D-402), Building 306-W (as provided by Small Project ER 4039), and Building 326 (as provided by Project D-403).	12/93	12/93
M-17-16D	Implement closed loop cooling for Buildings 291-Z, 234-5Z, and 236-Z, as provided by "291-Z Closed Loop Cooling" (Project C-040) and "Plutonium Finishing Plant Liquid Low-Level Waste System Modification" (Project B-680H). Reduce the discharge to Crib 216-Z-20 to less than or equal to 75 gallons per minute, averaged over the calendar month.	1/94	1/94

ACCOMPLISHMENTS

- Submitted the additional information to the EPA, Headquarters, in support of the 200 Area Effluent Treatment Facility (ETF) Delisting Petition.
- Submitted to Ecology the addendum to the engineering report for the 200 Area ETF. The addendum addresses pilot plant test results.

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- Submitted to Ecology the addendum to the engineering report for the 200 Area Treated Effluent disposal site characterization work plan. This report transmits the results of the site characterization activities for the 200 Area Treated Effluent disposal site.
- Apollo Construction, the 200 Area Treated Effluent Disposal Facility collection system contractor, started excavation and laying pipe on August 3, 1993.
- Submitted to Ecology the Part B of the Dangerous Waste permit application for the 200 Area ETF.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit groundwater assessment plans to Ecology and EPA for Liquid Wastewater Disposal Facility 1325-N, Crib 216-W-LWC, Powerhouse Pond 284-W, and Pond 2101-M by September 1993 (milestone M-17-13).
- Obtain approval from DOE-HQ for rebaselining of the Hanford Environmental Compliance Line Item to include additional scope to implement Best Available Treatment Technology for UO₃ Plant wastewater and process condensate, T Plant wastewater and laboratory wastewater, 284 West Powerhouse wastewater, and the 2101-M Laboratory wastewater.
- Submit the 200 Area Treated Effluent Disposal Facility disposal site characterization report to Ecology (November 1993).

MILESTONE STATUS/PROBLEMS/ISSUES

- The milestone is on schedule.
- Compliance with all effluent flow restrictions contained in Tri-Party Agreement milestone M-17 has been maintained during this month.
- DOE-HQ has delayed approval for rebaselining of the Hanford Environmental Compliance Line Item to include additional scope to implement Best Available Treatment Technology for UO₃ Plant wastewater and process condensate, T Plant wastewater and laboratory wastewater, 284 West Powerhouse wastewater, and the 2101-M Laboratory wastewater.
- Ecology has performed an evaluation of the environmental impacts that will occur with the construction and operation of the 200 Area ETF, as required by the State Environmental Policy Act. Ecology is proposing to adopt the federal evaluation of these impacts with an addendum that will specifically address the environmental impacts of discharging treated wastewater, which contains residual radioactive tritium, to the soil column. Ecology's evaluation will undergo a 60-day public comment period and is targeted for completion by December 1993.

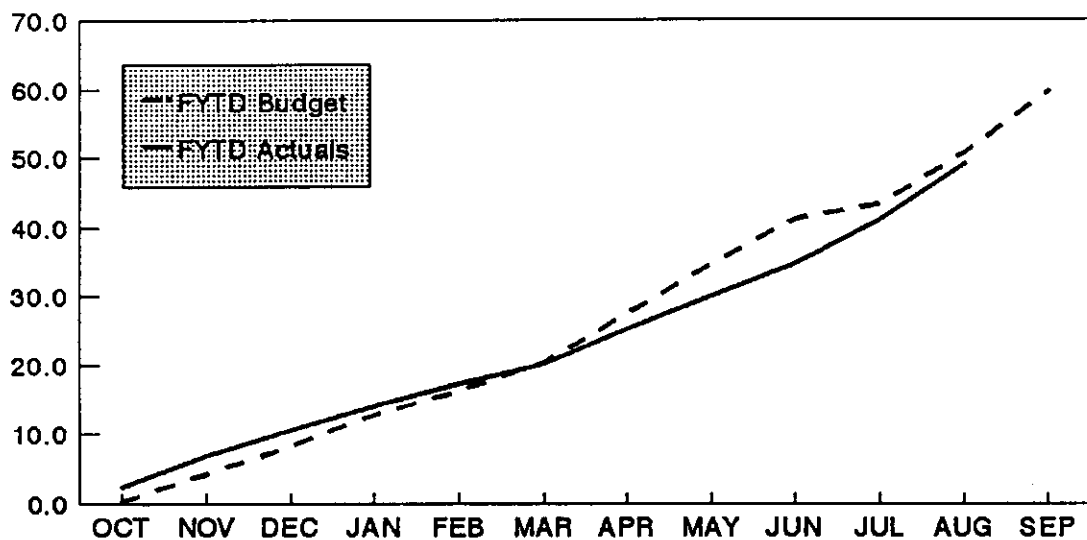
DOE cannot award the contract for building the 200 Area Effluent Treatment disposal structure without this State Environmental Policy Act approval. A December 1993 approval date will place the M-17 interim

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milestones that support hot startup of the facility, and the M-26 interim milestones that support clean out of the Liquid Effluent Retention Facility basins in jeopardy. A Tri-Party Agreement change request has been presented to the regulators that outlines the M-17 and M-26 interim milestone delays that will occur due to the delay in State Environmental Policy Act approval.

- EPA's issuance of the research, development, and demonstration draft permit has been delayed as a result of disagreement over a description of the Hanford Site. A legal description of the research, development, and demonstration and load-in/load-out station has been finalized and certified. EPA will issue the permit when they receive the legal description.

\$ Millions



FYTD Budget	0.3	4.3	8.3	12.9	16.2	20.4	27.5	34.7	41.3	43.3	50.8	59.8
FYTD Actuals	2.4	6.9	10.7	14.1	17.3	20.2	25.3	30.1	34.9	41.0	49.1	
Spending Var	-2.1	-2.6	-2.4	-1.2	-1.1	0.2	2.2	4.6	6.4	2.3	1.7	

Variance Explanation: None required.

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MAJOR MILESTONE: M-18-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: March 1997

PROJECTED DATE: March 1997

DESCRIPTION: Complete Waste Receiving and Processing (WRAP) Facility,
 Module 1, construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

ACCOMPLISHMENTS

- Continued discussions about the RCRA permit application at the monthly Tri-Party Agreement unit managers' meeting.
- Obtained approval from the Washington State Department of Health and from the EPA, Region 10, for the section of the air permit that discusses the projected emissions and pollution abatement controls that will be imposed on the airborne emissions of radioactive material. This approval is required before starting construction of WRAP Facility, Module 1.

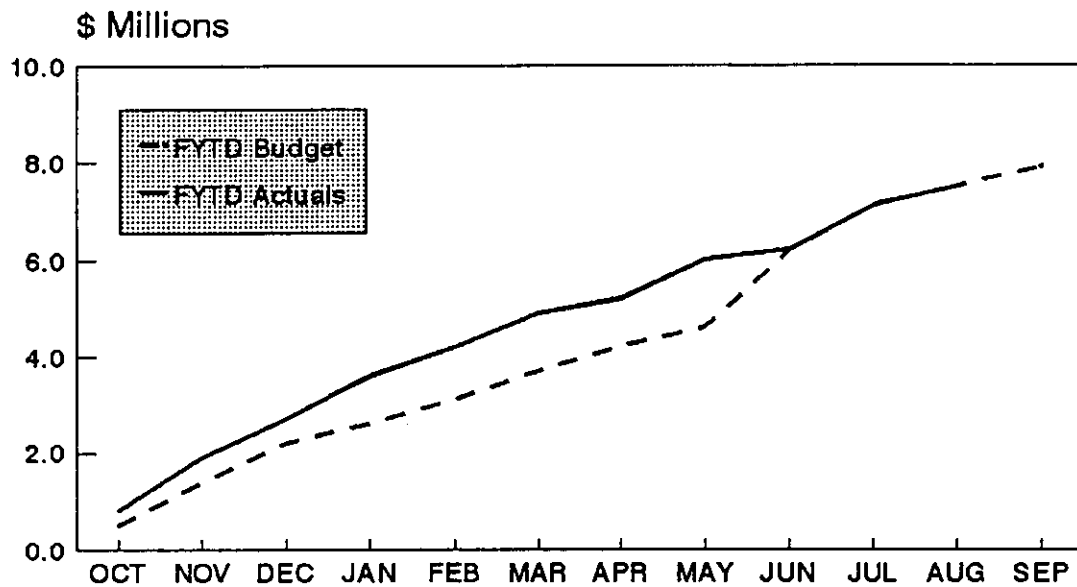
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Obtain approval from Ecology for the section of the air permit that discusses the projected emissions and pollution abatement controls that will be imposed on toxic air pollutants. Ecology approval of the permit is required before the start of construction of the WRAP Facility, Module 1.
- Start construction of the WRAP Facility, Module 1.
- Complete glovebox testing.
- Complete the approval process for the preliminary safety analysis report for the WRAP Facility, Module 1.
- Prepare construction bid packages for WRAP Facility, Module 1. These bid packages will cover major components of the WRAP Facility (e.g., electrical system, heating and ventilation system, fire protection system). The imminent award of two of the systems contracts will occur once WHC has received Key Decision 3 approval.

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MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule. DOE-HQ has delayed Key Decision 3 until September 1993.



FYTD Budget	0.5	1.4	2.2	2.6	3.1	3.7	4.2	4.6	6.2	7.1	7.5	7.9
FYTD Actuals	0.8	1.9	2.7	3.6	4.2	4.9	5.2	6.0	6.2	7.1	7.5	
Spending Var	-0.3	-0.5	-0.5	-1.0	-1.1	-1.2	-1.0	-1.4	0.0	0.0	0.0	

Variance Explanation: None required.

DOE DIRECTOR: J. M. Hennig

BASELINE DATE: September 1999

PROJECTED DATE: September 1999

DESCRIPTION: Complete WRAP Facility, Module 2, construction and initiate operations.

Milestone	Description	Baseline	Projected
None.			

- Continued the waste formulation for the waste immobilization demonstration testing.
- Continued update of the process flow diagrams for grout and polymer immobilization to support the start of Title I design.

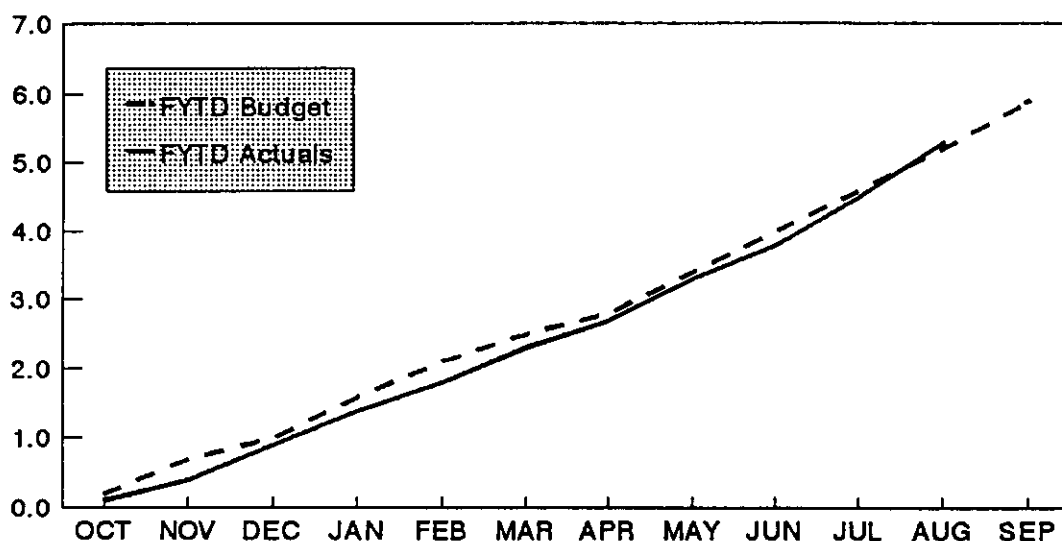
- Continue preparation of the advanced conceptual design for the WRAP Facility, Module 2A.
- Obtain approval of change request M-19-91-01 from Ecology and EPA. This issue has been outstanding for several months.
- Continue with waste form verification and in-drum mixing testing.
- Begin activities for the development of the WRAP Facility, Module 2A, preliminary safety analysis report.
- Obtain Key Decision 1 (KD-1) for the WRAP Facility, Module 2A, from DOE-HQ. This decision is required to proceed into definitive design of the project. KD-1 was delayed until September 1993.

- Technical issues associated with the Waste Isolation Pilot Plant waste acceptance criteria continue to impact the design of the WRAP Facility, Module 2. A strategy for the WRAP Facility, Module 2B, is being evaluated in light of the Waste Isolation Pilot Plant waste acceptance criteria issues. A meeting was held with Ecology to discuss the

outstanding WRAP Facility, Module 2, submodularization change request. Ecology has committed to review the strategy assessment. Work on the portion of the WRAP Facility, Module 2 (i.e., the WRAP Facility, Module 2B) that will receive and process remote handled transuranic waste contaminated hazardous waste (i.e., mixed remote handled transuranic waste) is behind schedule. The portion of the WRAP Facility, Module 2, that is not affected by the Waste Isolation Pilot Plant waste acceptance criteria (i.e., the WRAP Facility, Module 2A) remains on schedule. The submodularization of the WRAP Facility, Module 2, is reflected in Tri-Party Agreement change request M-19-91-01. Ecology and EPA continue to review this change request.

- WRAP Facility, Module 2A, is on schedule for September 1999, the Tri-Party Agreement milestone M-19-00 due date.

\$ Millions



FYTD Budget	0.2	0.7	1.0	1.6	2.1	2.5	2.8	3.4	4.0	4.6	5.2	5.9
FYTD Actuals	0.1	0.4	0.9	1.4	1.8	2.3	2.7	3.3	3.8	4.5	5.3	
Spending Var	0.1	0.3	0.1	0.2	0.3	0.2	0.1	0.1	0.2	0.1	-0.1	

Variance Explanation: None required.

MAJOR MILESTONE: M-20-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: J. D. Bauer

MANAGER: S. M. Price

BASELINE DATE: May 1996

PROJECTED DATE: May 1996

DESCRIPTION: Submit Part B permit applications or closure plans for all RCRA treatment, storage, and disposal units.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-20-30	Submit 303-M Oxide Facility Part B (T-3-2).	10/92	Dispute ^a
M-20-32	Submit 300 Area Process Trenches Closure/Postclosure Plan (D-3-1).	8/94	8/94
M-20-31	Submit 1301-N/1325-N Closure Plan/Postclosure Plan (D-1-2).	5/94	5/94

^aSee "Milestone Status/Problems/Issues."

ACCOMPLISHMENTS

- Submitted revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the 200 Area ETF and the 207-A South Retention Basin to Ecology and EPA.
- Submitted the Hanford Facility Dangerous Waste Permit Application, 200 Area ETF documentation to Ecology and EPA on August 30, 1993; this completes Tri-Party Agreement milestone M-20-50.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit a notice of intent to expand treatment and storage capacities of the DST system.
- Respond to review comments received for the following Hanford Facility Dangerous Waste Permit Application portions: 305-B Storage Unit, Revision 1 (M-20-08, submitted November 1990) and the 616 Nonradioactive Dangerous Waste Storage Facility, Revision 2 (M-20-02, submitted October 1991). Per an agreement reached with Ecology and EPA, supplemental waste characterization information for the 305-B and 616 waste analysis plans is being prepared and submitted as an interim response to the June 16, 1993 comments.

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- Respond to the notice of deficiency (NOD) for the 100-D Ponds Closure Plan when received (M-20-40, submitted February 26, 1993).
- Resolve NOD comments received on the 4843 Alkali Metal Storage Facility Closure Plan, Ashpit Demolition Site Closure Plan, 218-E-8 Borrow Pit Demolition Site Closure Plan, and Hanford Patrol Academy Demolition Site Closure Plan.
- Revise the 304 Concretion Facility Closure Plan, 303-K Radioactive Mixed Waste Storage Facility Closure Plan, and the 216-B-3 Pond System Closure/Postclosure Plan to reflect agreements reached with Ecology on NOD comments.
- Submit a revised closure plan for the Simulated High-Level Waste Slurry Treatment/Storage unit. The closure plan is being revised to incorporate information and regulatory changes that have occurred since Ecology last reviewed the document in 1990.
- Submit revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the 616 Nonradioactive Dangerous Waste Storage Facility, Plutonium-Uranium Extraction (PUREX) Plant, Pond 216-B-3, and the T Plant Complex (see "Milestone Status/Problems/Issues").
- Submit a change request to Tri-Party Agreement milestone M-20-24 to require submittal of a closure plan for the PUREX Plant in November 1994.
- Prepare the initial closure plans for the following TSD units: 1301-N/1325-N Liquid Waste Disposal Facilities (Tri-Party Agreement milestone M-20-31), 300 Area Process Trenches (Tri-Party Agreement milestone M-20-32), and 1324-N/1324-NA Surface Impoundments (Tri-Party Agreement milestone M-20-35).

MILESTONE STATUS/PROBLEMS/ISSUES

- M-20-30, "Submit 303-M Oxide Facility Part B to Ecology and EPA"--RL submitted to Ecology a request to withdraw the Part A permit application for the 303-M Oxide Facility and a change request to delete the milestone. Ecology denied both. RL then prepared a notice of dispute and met with Ecology to begin resolution. During the February Project Managers' meeting, Ecology requested that RL consider integrating the RCRA closure and *Comprehensive Environmental Response Compensation and Liability Act* (CERCLA) past practice remediation, keeping the Part A permit application in place, and requesting relief from some of the administrative interim status requirements. Later, the Ecology Project Manager directed RL to discuss this issue with the Ecology Kennewick Office. During a March 16, 1993, meeting, Ecology stated its position is to conduct limited sampling, submit a RCRA closure plan, decontaminate and decommission the building, and leave the concrete slab for protection of Burial Ground 618-1. A letter was submitted to Ecology transmitting a Tri-Party Agreement issue resolution worksheet reflecting RL's position to delay any action for this treatment, storage, and disposal unit until the OU remediation is completed.

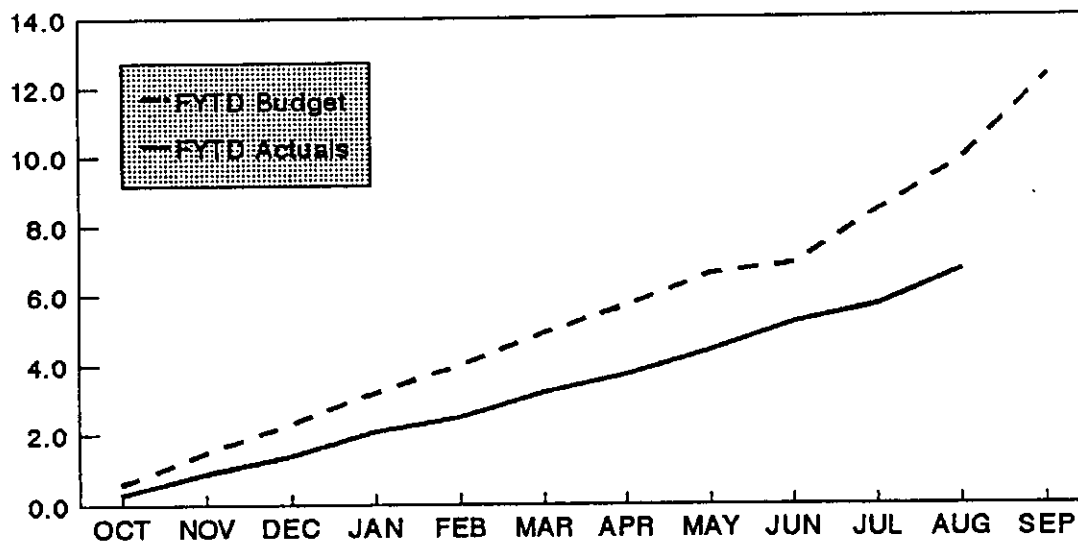
- M-20-42, "Submit Thermal Treatment (T-X-3) Part B to Ecology and EPA"--Development of the Part B application for this unit has identified several issues to be resolved before a technically accurate and complete application can be prepared. RL submitted a change package (M-20-92-7), delaying the December 31, 1993, submittal of this Part B permit application for 1 year, on June 9, 1993. This change package was approved by RL, Ecology, and EPA on August 3, 1993.
- M-20-09, "Submit 216-B-3 Pond Closure/Postclosure Plan to Ecology and EPA"--A strategy and schedule is being prepared to combine remediation activities of the past practice OU 200-BP-11, with the closure activities of the 216-B-3 Pond System. This strategy supports the activities needed to administratively clean close the 216-B-3A, 216-B-3B, and 216-B-3C lobes by June 1995. Closure of the 216-B-3 Pond and 216-B-3-3 Ditch will be integrated with the RCRA Past Practice activities for the OU. The three parties must decide on this strategy to allow for continued use of the 216-B-3B and -3C lobes to support liquid effluent disposal (216 Consent Order). This integration information was discussed with the Ecology Kennewick Office. Discussions with Ecology are continuing. A change request for the OU, incorporating the proposed strategy, was approved by RL, Ecology, and EPA.
- M-20-02, "Submit 616 Storage Facility Part B to Ecology and EPA"--RL received a formal NOD for this unit's permit application on June 16, 1993. This NOD specifically addressed the 616 Storage Facility waste analysis plan. The original date for submittal of waste analysis plan information was July 30, 1993. In discussions between EPA, Ecology, RL, Pacific Northwest Laboratory (PNL), and WHC, it was agreed that supplemental waste characterization information for the 616 waste analysis plan would be provided. This would be an interim response until a new waste analysis plans could be developed. We are continuing to work on this NOD.
- M-20-08, "Submit 305-B Storage Unit Part B to Ecology and EPA"--RL received a formal NOD for this unit's permit application on June 16, 1993. This NOD specifically addressed the 305-B waste analysis plan. The original date for submittal of waste analysis plan information was July 30, 1993. In discussions between Ecology, EPA, RL, PNL, and WHC, it was agreed that supplemental waste characterization information for the 305-B waste analysis plan would be provided. This would be an interim response until a new waste analysis plans could be developed. We are continuing to work on this NOD.
- Hanford Facility Dangerous Waste Permit (Hanford Facility Permit)--On July 27, 1993, a letter was received from Ecology and EPA documenting that the regulators were planning to issue a revised Draft Hanford Facility Permit for public comment on September 15, 1993. Concern was expressed to the regulators that approximately 15 key permitting issues could not be satisfactorily resolved before their proposed mid-September 1993 Draft Permit issuance date in meetings held on August 5 and 20, and in a letter dated August 19, 1993. RL and their contractors were provided an advance draft of sections of the Permit on August 16, 1993, to be discussed with Ecology and EPA on August 20 and 23, 1993. In

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addition, comments in the form of Draft Suggested Revised Language, were provided to the regulators on August 13 and 23, 1993. A later advance draft of the Permit was received from Ecology on August 25, 1993. A meeting is scheduled for September 3, 1993, among Ecology, RL, WHC, and PNL management to status the resolution of permitting issues and to discuss whether a September 15, 1993, revised Draft Permit issuance date is still advisable. An issue status summary was drafted and transmitted to Ecology on August 26, 1993, in support of this meeting.

- T Plant Complex--On July 26, 1993, Ecology formally denied Revision 1 of the T Plant Complex Part A permit application, Form 3. As the basis for denial, Ecology cited the failure of five tank systems included in the revision "to meet interim status standards due to the lack of adequate secondary containment and leak detection capabilities." Ecology also expressed concern about adequate secondary containment for storage of containerized waste outside Buildings 221-T and 2706-T. Ecology's approval of the T Plant Complex Part A permit application is contingent upon establishing a compliance schedule to address secondary containment requirements and submitting a revised Part A permit application that better describes the waste management areas to be used at the T Plant Complex.

\$ Millions



FYTD Budget	0.6	1.5	2.3	3.2	4.0	4.9	5.7	6.6	6.9	8.4	9.9	12.3
FYTD Actuals	0.3	0.9	1.4	2.1	2.5	3.2	3.7	4.4	5.2	5.7	6.7	
Spending Var	0.3	0.6	0.9	1.1	1.5	1.7	2.0	2.2	1.7	2.7	3.2	

Variance Explanation: The cost underrun results from continued delays in Ecology's review of Closure Plans, Part B Permit applications, and NOD responses resulting in less than planned support for followon revisions of these documents.

MAJOR MILESTONE: M-24-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. R. Thompson

BASELINE DATE: December 1993

PROJECTED DATE: December 1993

DESCRIPTION: Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and up to 50 per year thereafter as specified by agreed interim milestones until all land disposal units and SSTs are determined to have RCRA-compliant monitoring systems

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-24-00E	Install a maximum of 50 wells for CY 1993.	12/93	12/93
M-24-30	Install one additional RCRA well around Crib 1325-N (3 total).	12/93	4/93
M-24-31	Install two additional RCRA wells around the low-level burial grounds (81 total).	12/93	12/93
M-24-32	Install three additional RCRA wells around the Grout Treatment Facility (13 total).	12/93	12/93

ACCOMPLISHMENTS

- Fixed price contractor has reached total depth on two wells and has begun drilling a third as of the end of August. The first well drilled at low-level burial ground (M-24-31) was backpulled and is ready for development.

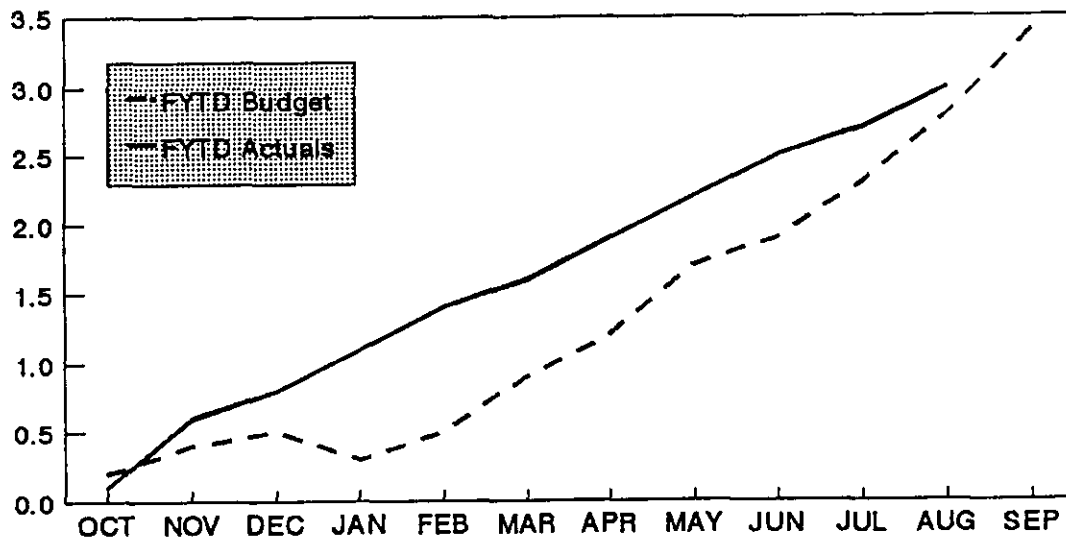
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete drilling activities for CY 1993 wells.

MILESTONE STATUS/PROBLEMS/ISSUES

- After early adjustment of equipment and procedures to Hanford conditions and the site safety sensitivity, the offsite contractor seemed to be hitting his stride at the end of August. Three wells remain to be drilled to complete this year's milestone.

\$ Millions



FYTD Budget	0.2	0.4	0.5	0.3	0.5	0.9	1.2	1.7	1.9	2.3	2.8	3.4
FYTD Actuals	0.1	0.6	0.8	1.1	1.4	1.6	1.9	2.2	2.5	2.7	3.0	
Spending Var	0.1	-0.2	-0.3	-0.8	-0.9	-0.7	-0.7	-0.5	-0.6	-0.4	-0.2	

Variance Explanation: None required.

MAJOR MILESTONE: M-26-00
STATUS FOR END OF MONTH: JULY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Landon

BASELINE DATE: April 1994

PROJECTED DATE: April 1994

DESCRIPTION: Submit annual Hanford land disposal restrictions (LDR) report in accordance with the LDR Plan to cover the period from April 1 through March 31.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-26-01D	Submit an annual Hanford LDR Report in accordance with the LDR Plan to cover the period from April 1 of the previous year through March 31 of the reporting year.	4/30/94	4/30/94

ACCOMPLISHMENTS

- Responded to EPA comments on the *1993 Report on Hanford Site Land Disposal Restrictions for Mixed Waste* (DOE\RL-93-11). The U.S. Department of Energy is recommending that the resulting changes to the report be deferred to the 1994 Annual Report.

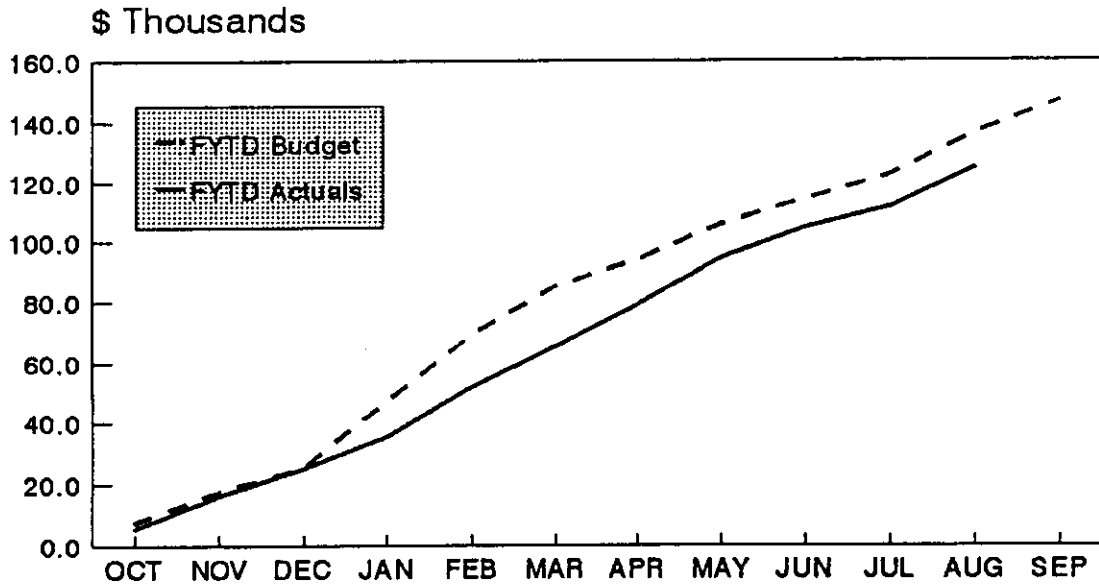
PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Receive regulator approval of the *1993 Report on Hanford Site Land Disposal Restrictions for Mixed Waste* (DOE\RL-93-11).
- Begin preparation of the *1994 Report on Hanford Site Land Disposal Restrictions for Mixed Waste*.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

DOE-4403136



FYTD Budget	7.5	17.7	25.5	47.4	69.4	85.3	94.3	105.8	114.4	122.4	136.6	147.1
FYTD Actuals	5.3	16.4	25.1	35.6	52.0	65.4	79.1	94.8	104.8	111.6	124.8	
Spending Var	2.2	1.3	0.4	11.8	17.4	19.9	15.2	11.0	9.6	10.8	11.8	

Variance Explanation: None required. This chart is prepared in thousands to provide meaningful data. The Budget Baseline Summary table shows zero because it is in millions.

MAJOR MILESTONE: M-30-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 1993

PROJECTED DATE: September 1993

DESCRIPTION: Complete integrated general investigations and studies for the 100 Area.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-30-05	Complete installation of all-field instrumentation and initiate monitoring activities necessary to perform long-term aquifer river investigations.	9/93	9/93

ACCOMPLISHMENTS

- Presented NPL Agreement Form (#52) to Ecology and EPA. Equipment installations and initiation of monitoring activities as described in the activity plan have been completed. WHC position is the obligation of Tri-Party Agreement milestone M-30-05 has been met ahead of schedule.
- Completed the review of the 100 Area CERCLA ecological investigations.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

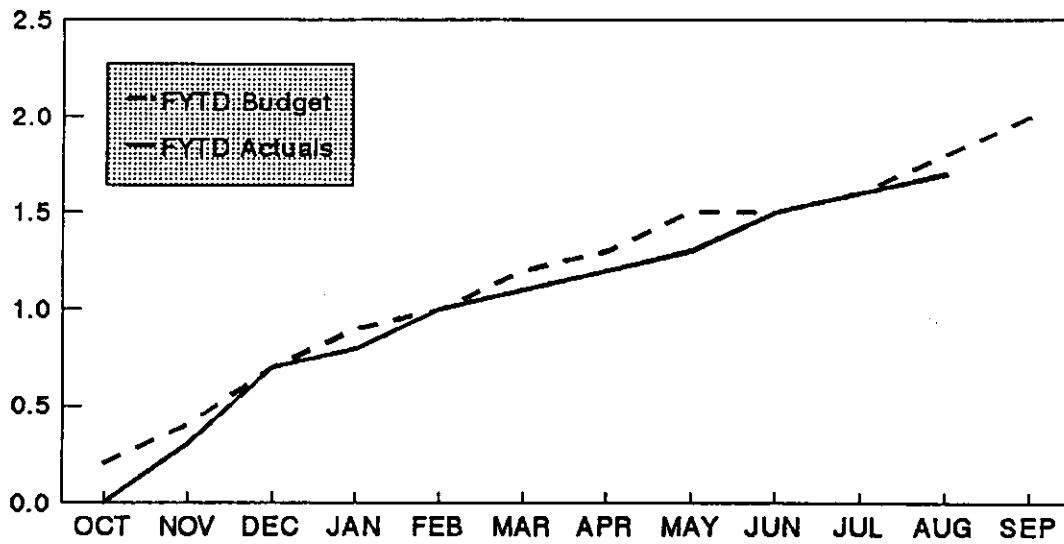
- Continue collection of conductivity data in the river, riverbank seepage, and a nearby groundwater monitoring well at the 100-H Area.
- Obtain additional profiles of conductivity in shoreline wells. Obtain borehole velocity measurements from 100-H Area wells.
- Issue the 100 Area CERCLA Ecological Investigations by the end of September 1993.
- Receive regulators' concurrence on M-30-05 obligations based on discussions at the July Unit Managers' Meeting (100 Area National Priorities Listing Agreement #52).

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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\$ Millions



FYTD Budget	0.2	0.4	0.7	0.9	1.0	1.2	1.3	1.5	1.5	1.6	1.8	2.0
FYTD Actuals	0.0	0.3	0.7	0.8	1.0	1.1	1.2	1.3	1.5	1.6	1.7	
Spending Var	0.2	0.1	0.0	0.1	0.0	0.1	0.1	0.2	0.0	0.0	0.1	

Variance Explanation: None required.

MAJOR MILESTONE: M-31-00
STATUS FOR END OF MONTH: AUGUST 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. L. Fritz

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Provide additional DST capacity. Construction complete.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-31-02	Recommend additional tank milestones.	09/30/92	08/31/93

ACCOMPLISHMENTS

- Initiated drilling for the geotechnical soils investigation work.
- Completed the draft rescoping effort to incorporate the 200 West Area option and delete HWVP and pretreatment.
- Approved the Functional Design Criteria Compliance Report.
- Kaiser Engineers Hanford issued the draft Plant Acquisition Plan for preliminary review.
- Completed the final draft of the System Design Requirement Document. Upon approval of the revised functional design criteria, the System Design Requirement Document will be approved.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

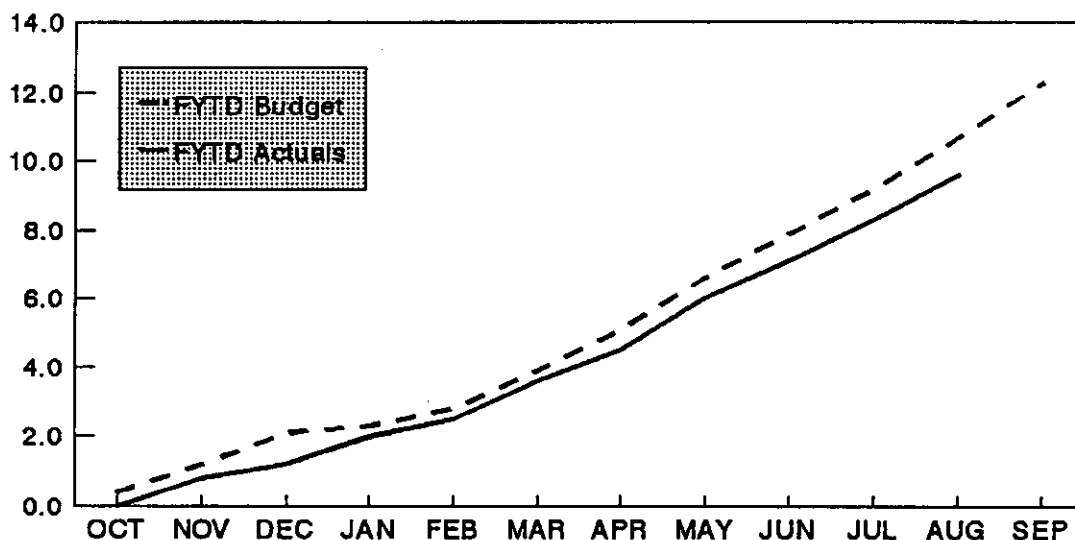
- Complete the Project Management Plan.
- Obtain approval on Level 0 change request for project rescoping.
- Complete the draft preliminary safety analysis report.
- Continue preliminary design of the new Multi-Function Waste Tank Facility (MWTF).
- Initiate the detailed design of the MWTF.

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MILESTONE STATUS/PROBLEMS/ISSUES

- Timely receipt of the DOE-HQ approved Baseline Change Proposal has not been forthcoming. This is continuing to delay the startup date for the west area tanks and the possible completion of the design.
- WHC has received no official DOE direction on the level of NEPA Documentation appropriate for the MWTF.
- Milestone M-31-02 is included in the negotiations now under way. This milestone will be deleted and a new milestone will be generated for future tanks.

\$ Millions



FYTD Budget	0.4	1.2	2.1	2.3	2.8	3.9	5.1	6.6	7.9	9.2	10.7	12.3
FYTD Actuals	0.0	0.8	1.2	2.0	2.5	3.6	4.5	6.0	7.1	8.3	9.6	
Spending Var	0.4	0.4	0.9	0.3	0.3	0.3	0.6	0.6	0.8	0.9	1.1	

Variance Explanation: The variance is primarily the result of Title I work. These various factors are the cause: (1) Kaiser Engineers Hanford did not ramp up as fast as was originally anticipated, (2) the current hold on the baseline activities associated with HWVP and Pretreatment, and (3) relocation of the MWTF site within the 200 East area.

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